

Fig. 1

ACCATGTAGCGGCCCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCAAAGCCCGGGCGTCGGGCGACCTTTGGT
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 GATTAACCCGCCATGCTACTTATCTACGTAGCCATGCTCTAGGGAATTGGCCGCGGAATTCGACTCTAGGCCATTG
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Fig. 2A

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Fig. 2B

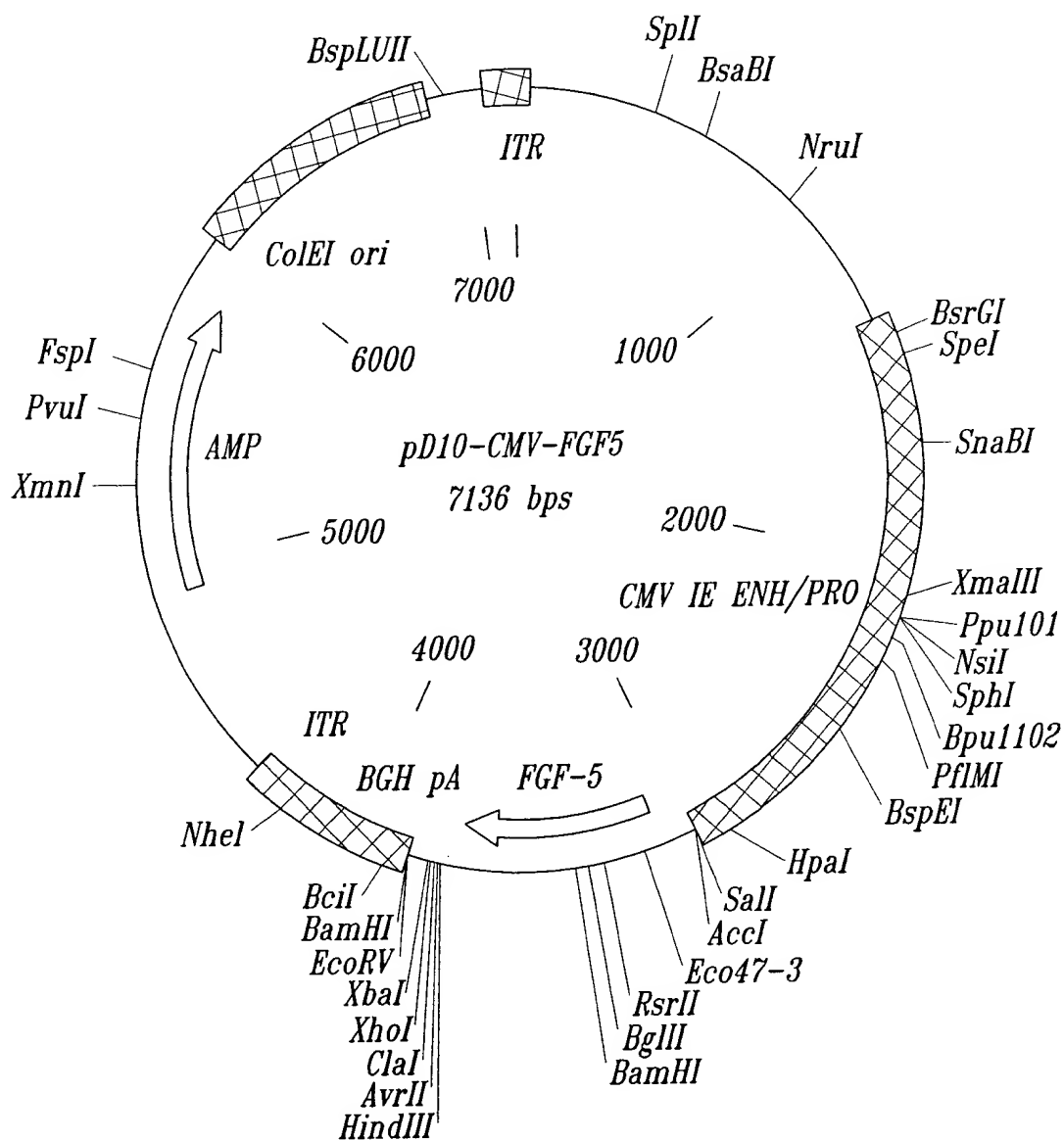


Fig. 3

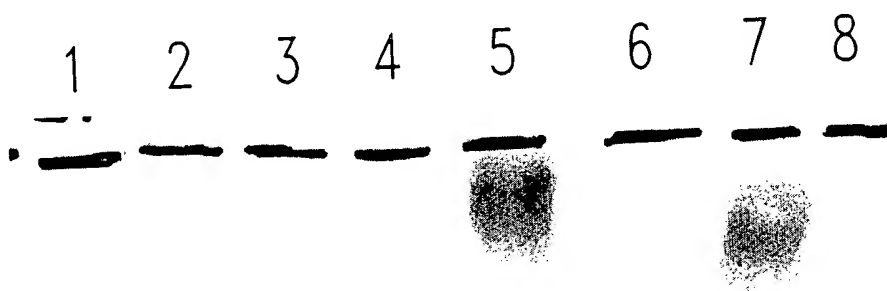


Fig. 4

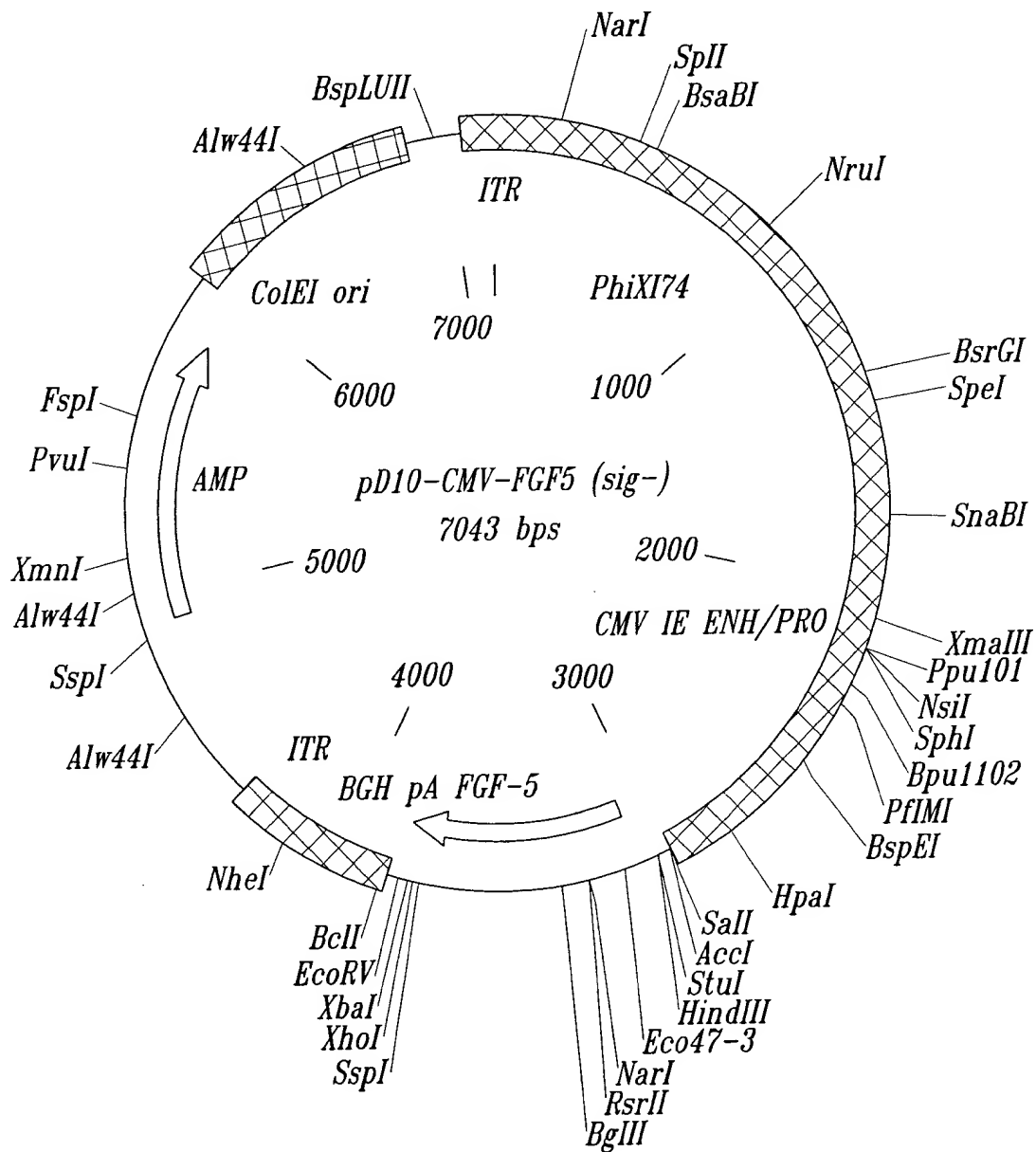


Fig. 5

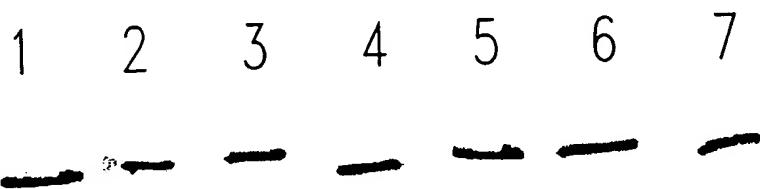


Fig. 6

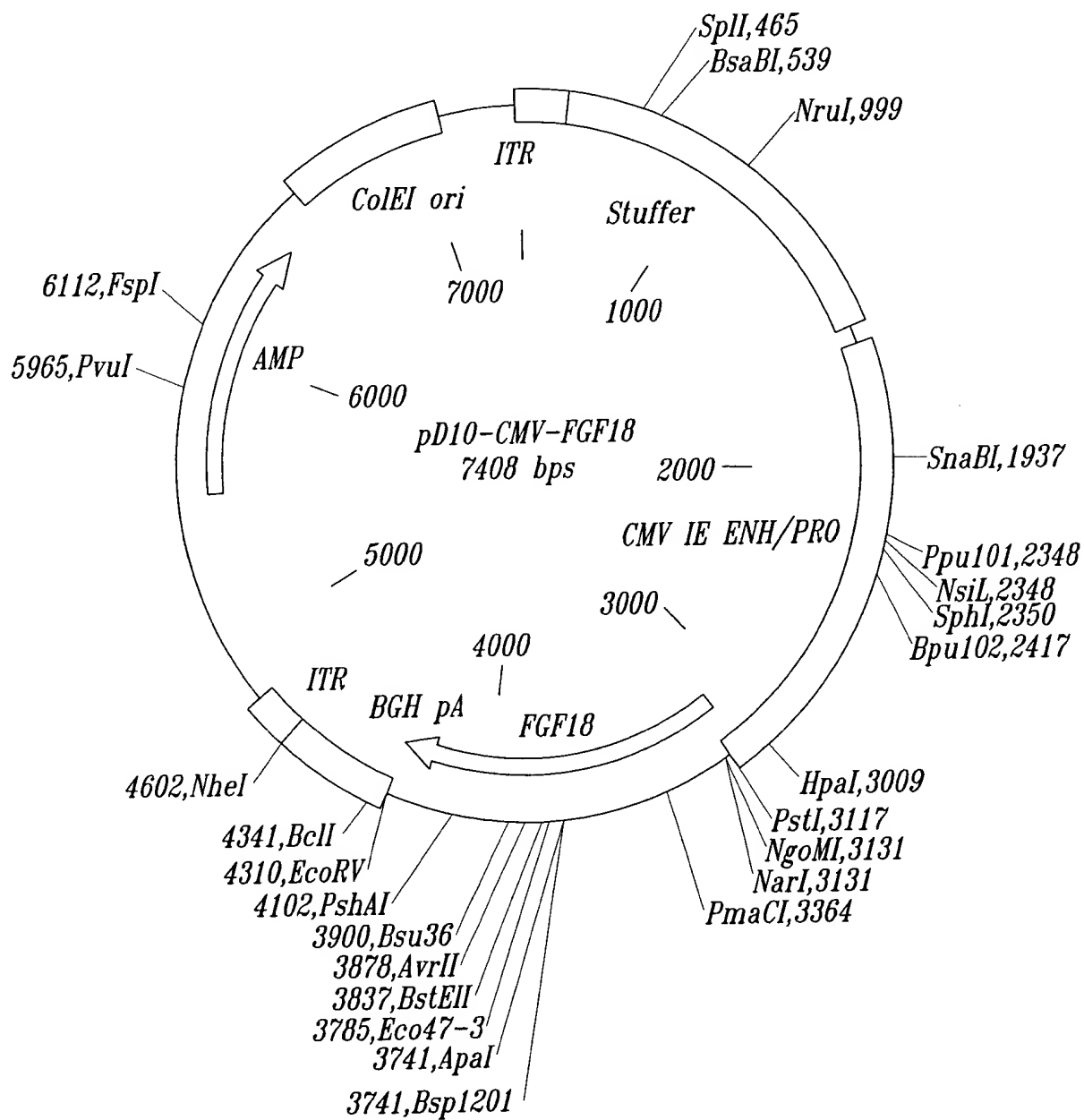


Fig. 7

000260-6459960

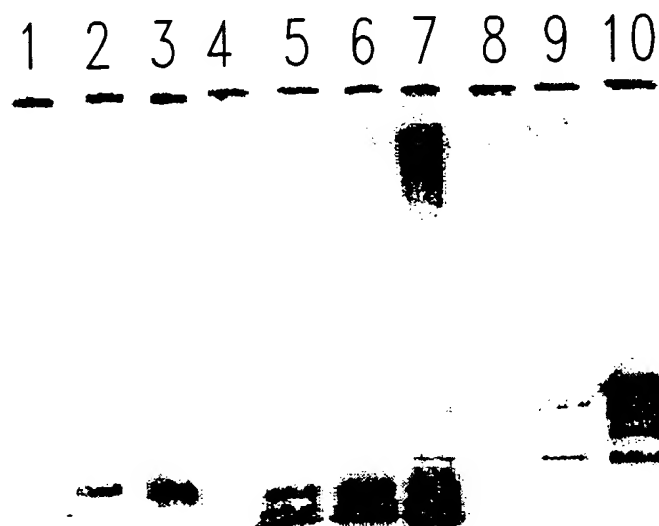
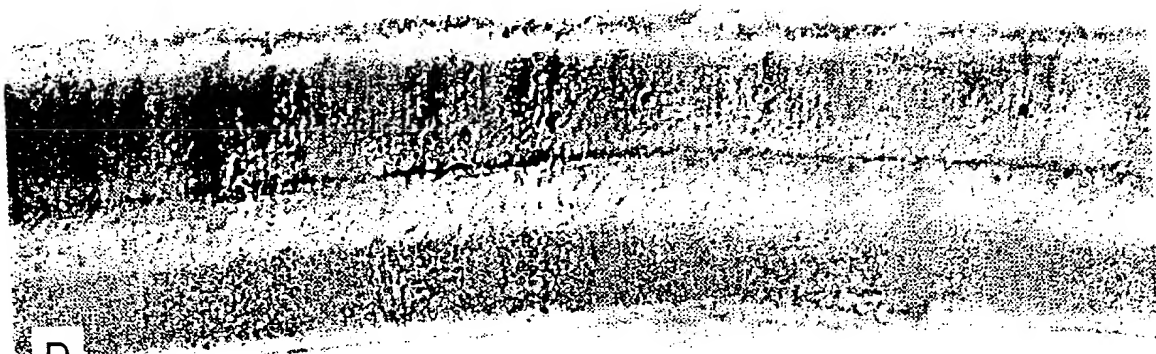


Fig. 8

000260" E6459960



A



B

Fig. 9

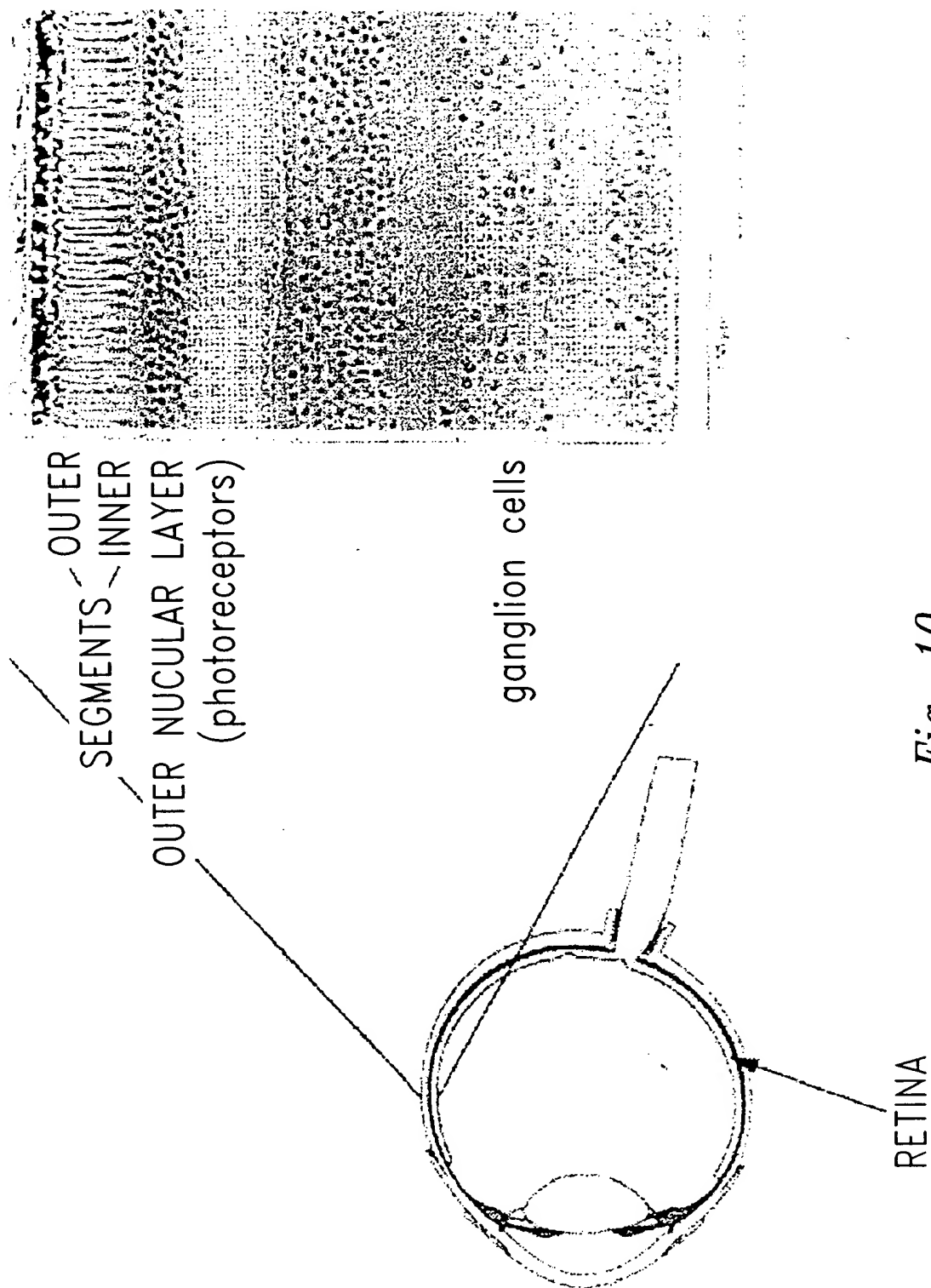


Fig. 10

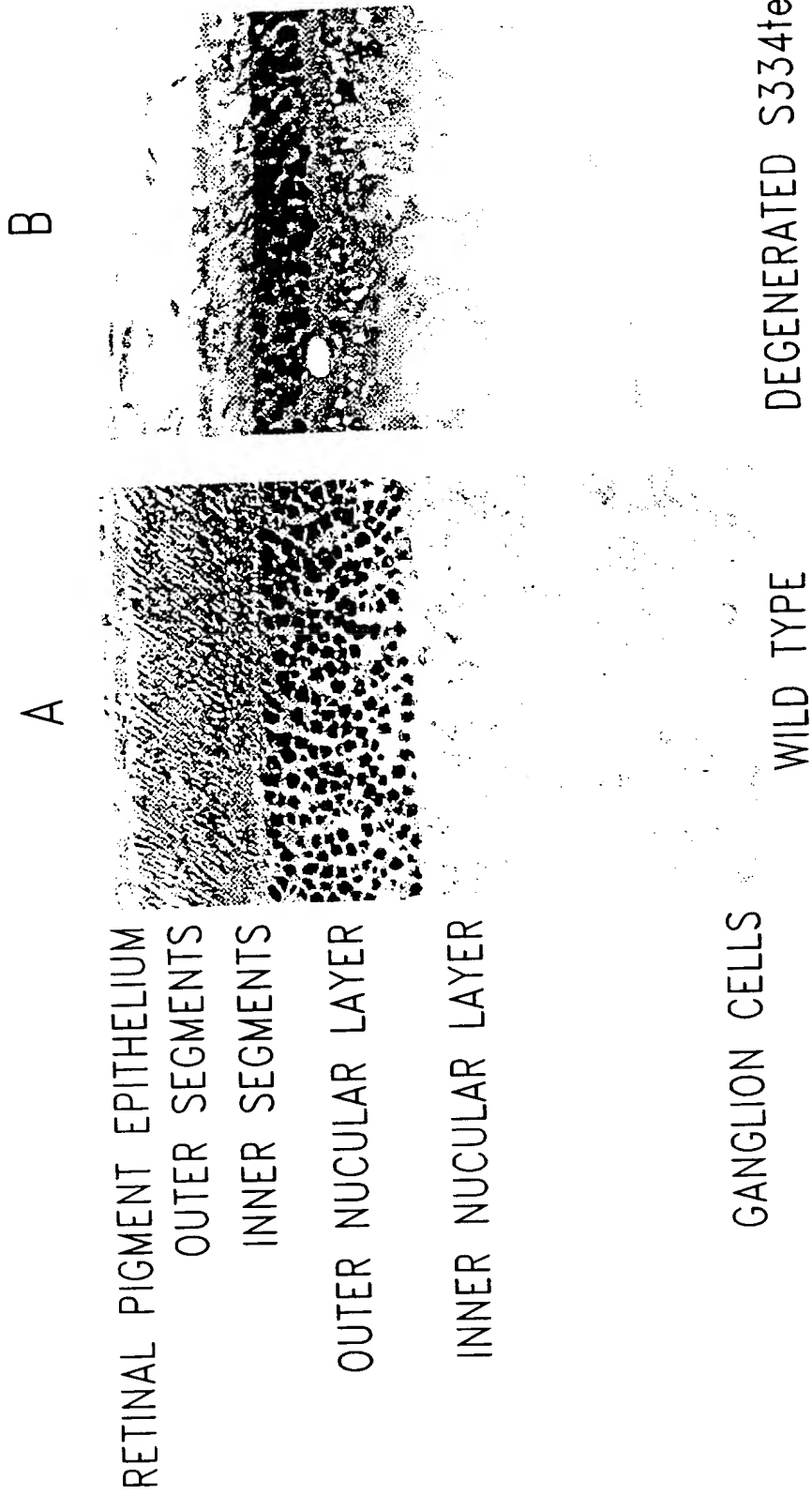
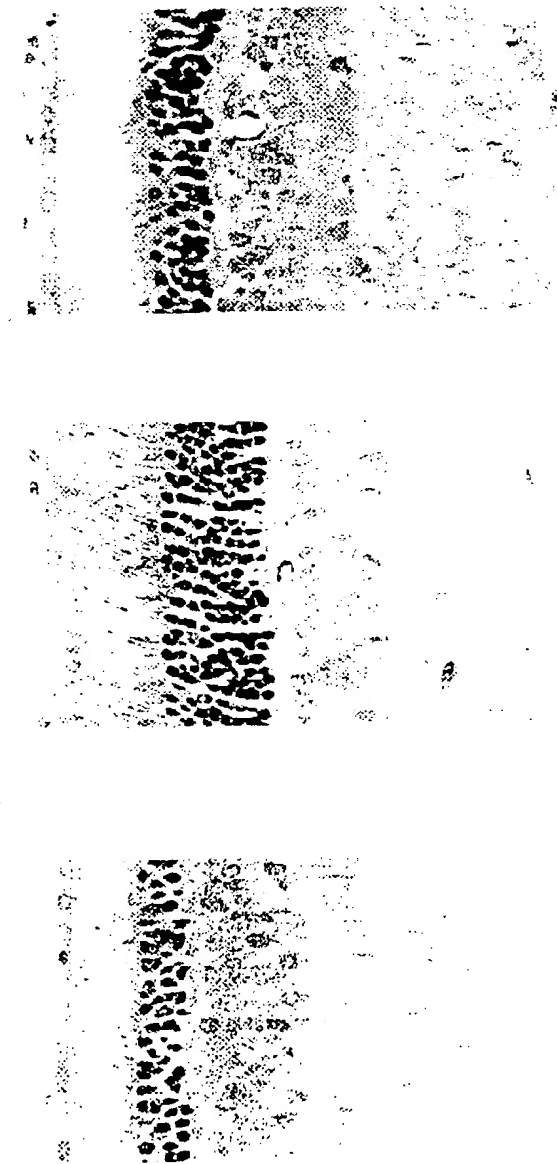


Fig. 11

DEGENERATED S334ter FGF-2 inj S334ter PBS inj S334ter



RPE
OUTER SEGMENTS
INNER SEGMENTS
OUTER NUCLEAR LAYER
(PHOTORECEPTORS)
INNER NUCLEAR LAYER

GANGLION CELL LAYER

A B C

Fig. 12

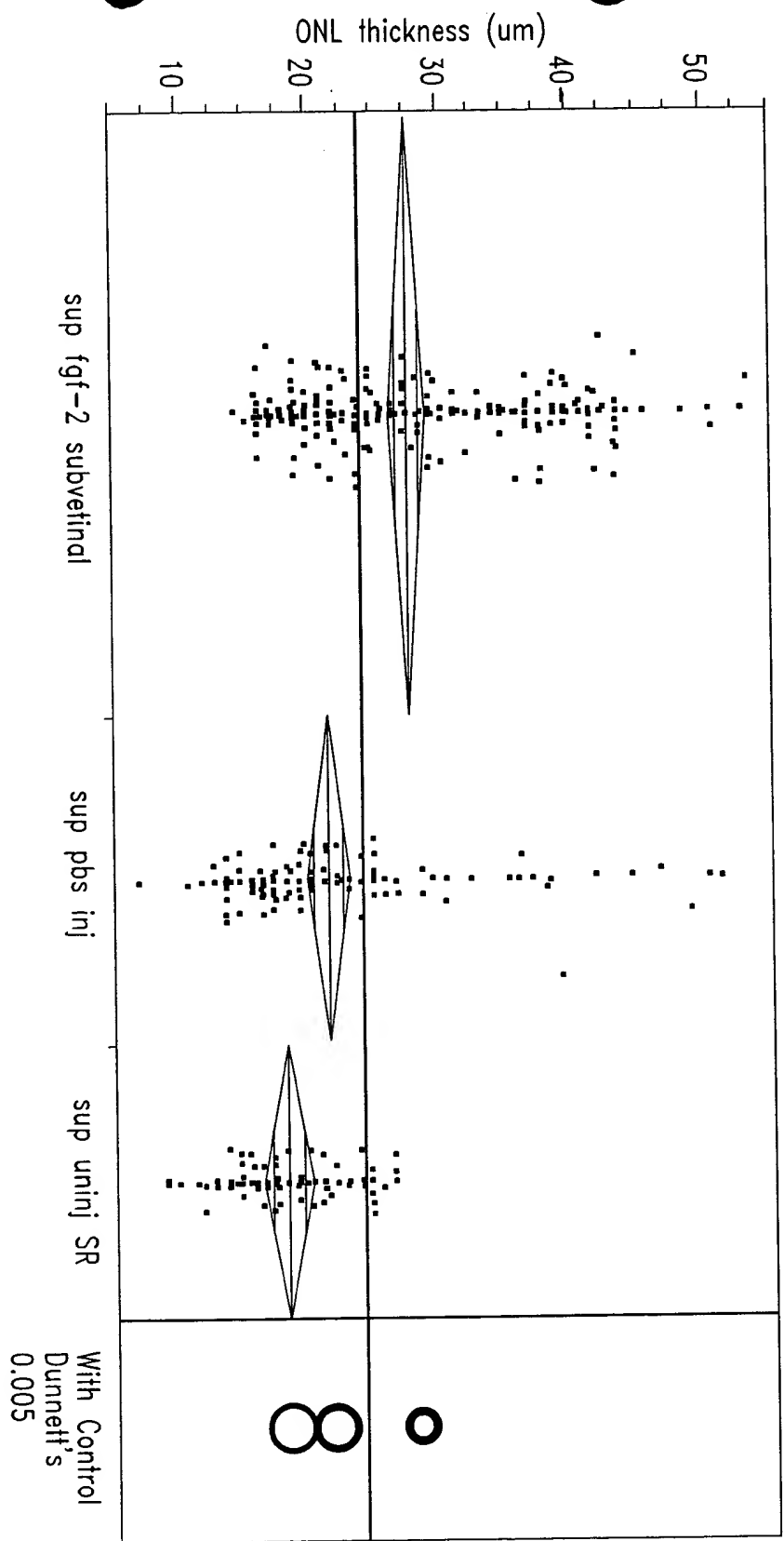


Fig. 13

OUTER NUCLEAR LAYER THICKNESS AT p60

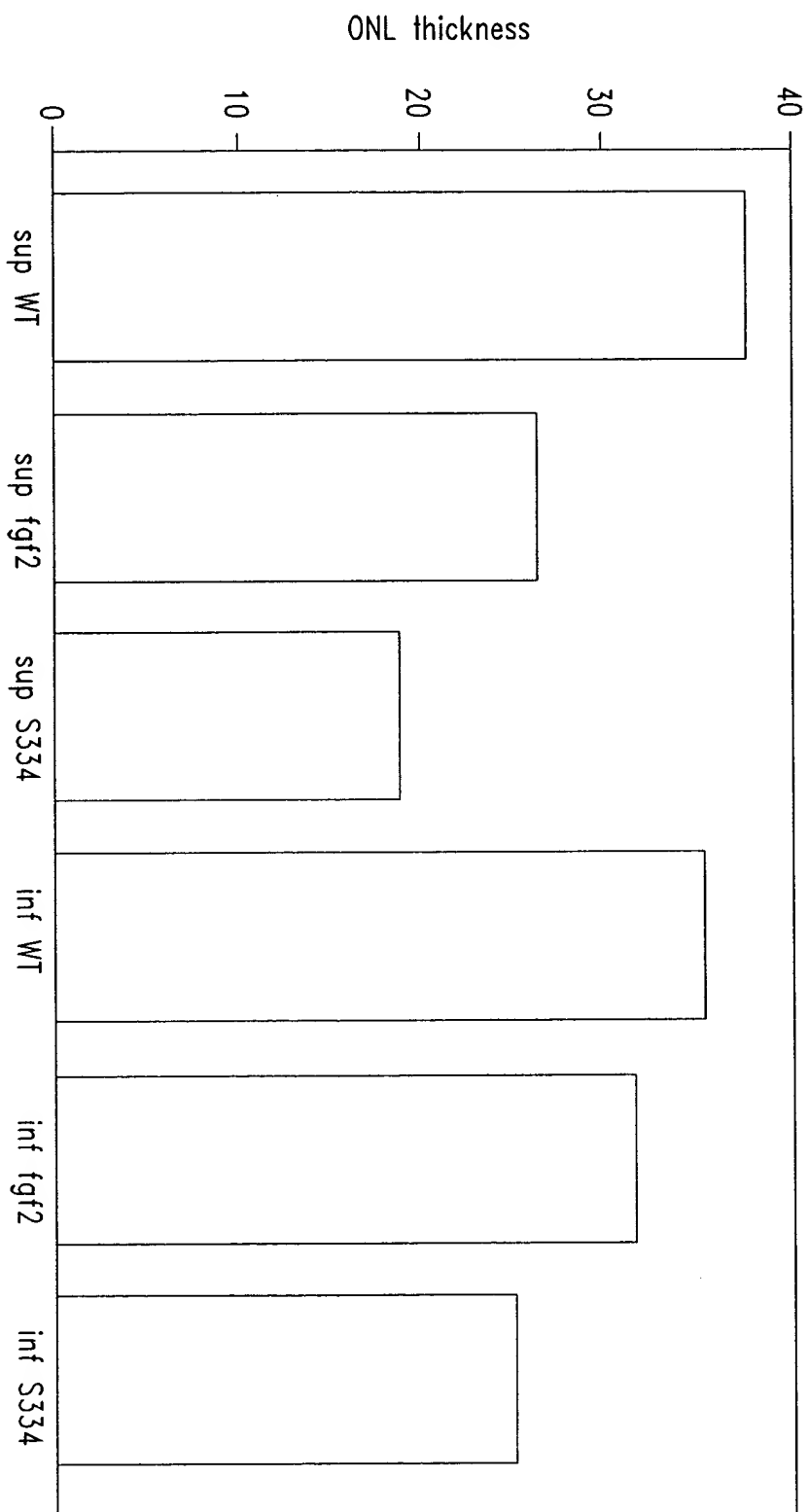
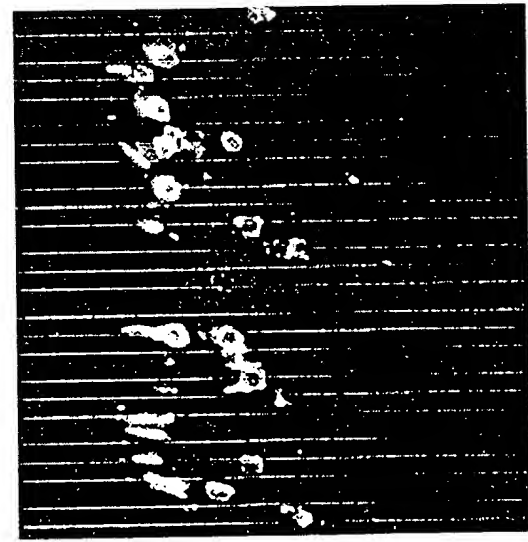
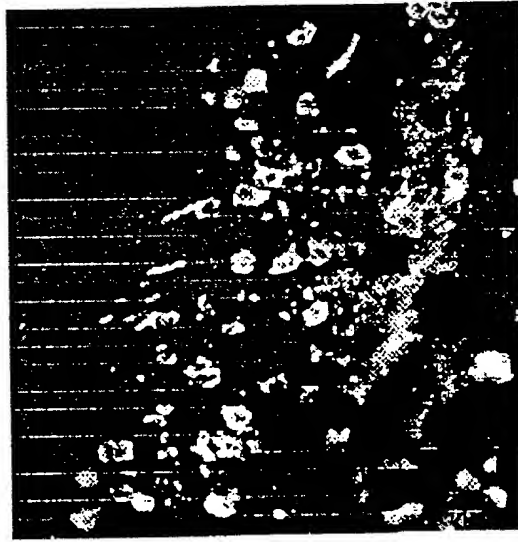


Fig. 14

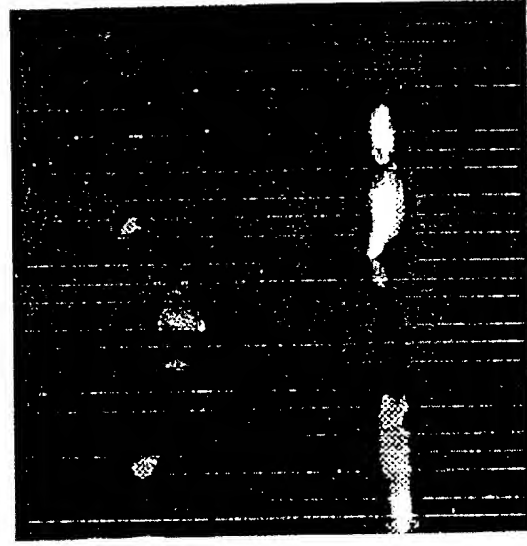


A



B

photoreceptors



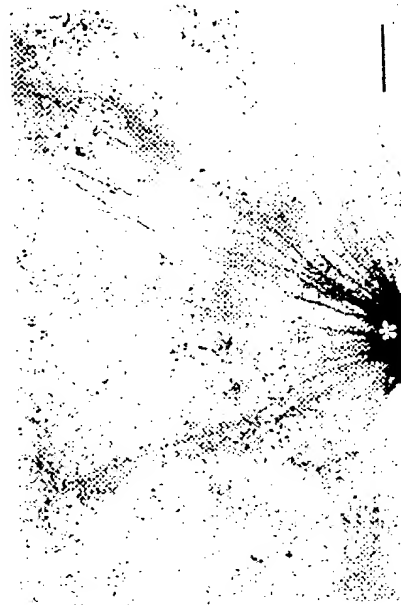
C

bipolar cells

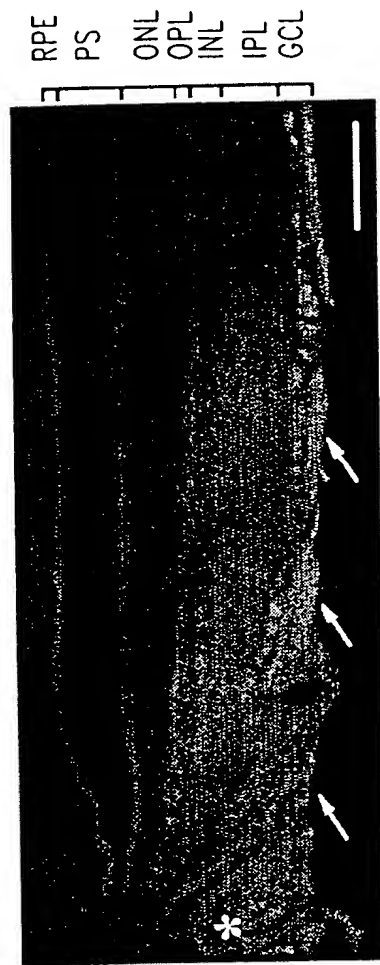
ganglion cells

Fig. 15

AAV-LacZ Transduction of Retinal Ganglia



A

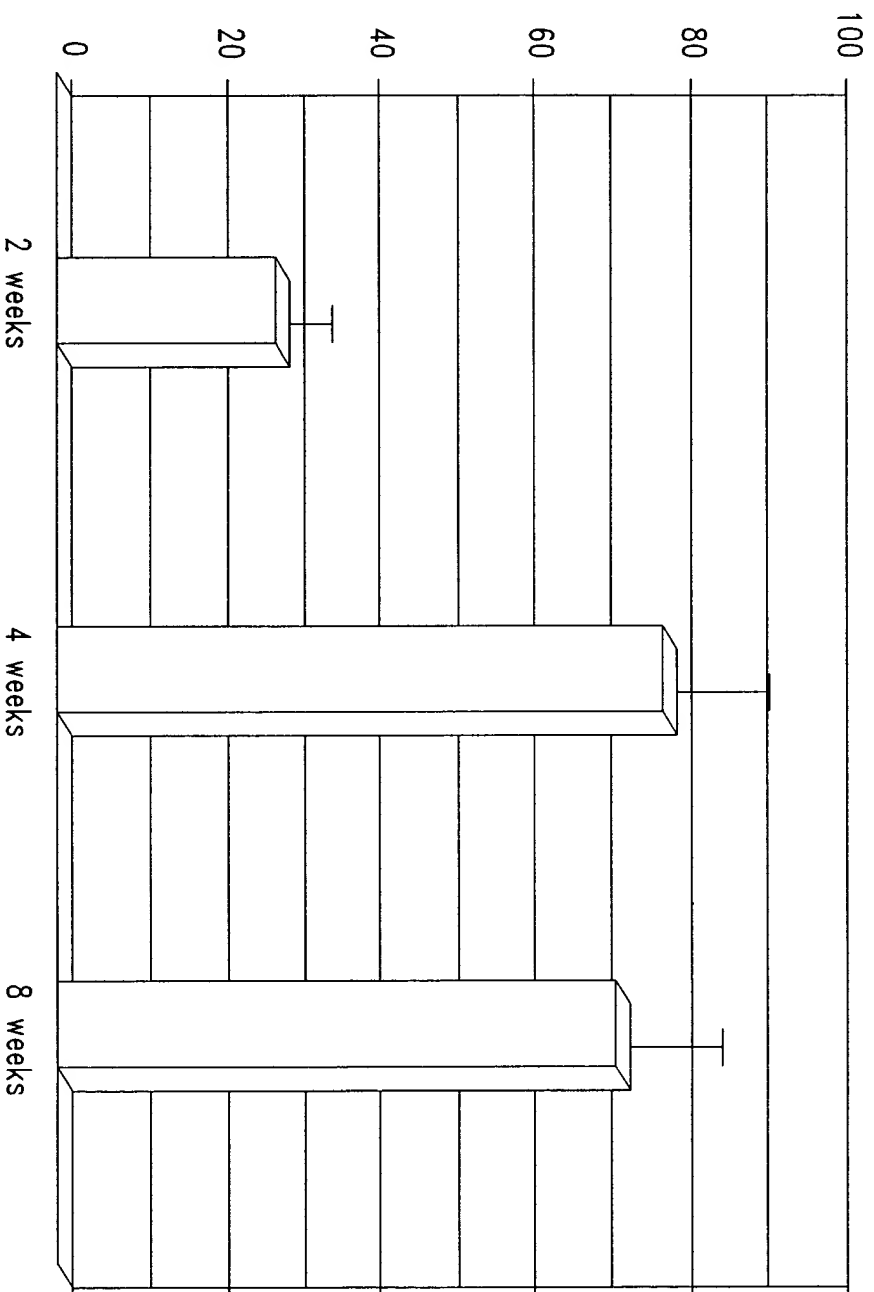


B

Fig. 16

Time Course of AAV-Medicated Transgene
Expression in the Ganglion Cell layer

Number of LacZ-positive cells
(mean \pm S.D. $\times 10^3$)



Time after intraocular injection of AAV

Fig. 17

Localization of AAV-Medicated LacZ Gene Product in Retrograde Labeled RCG

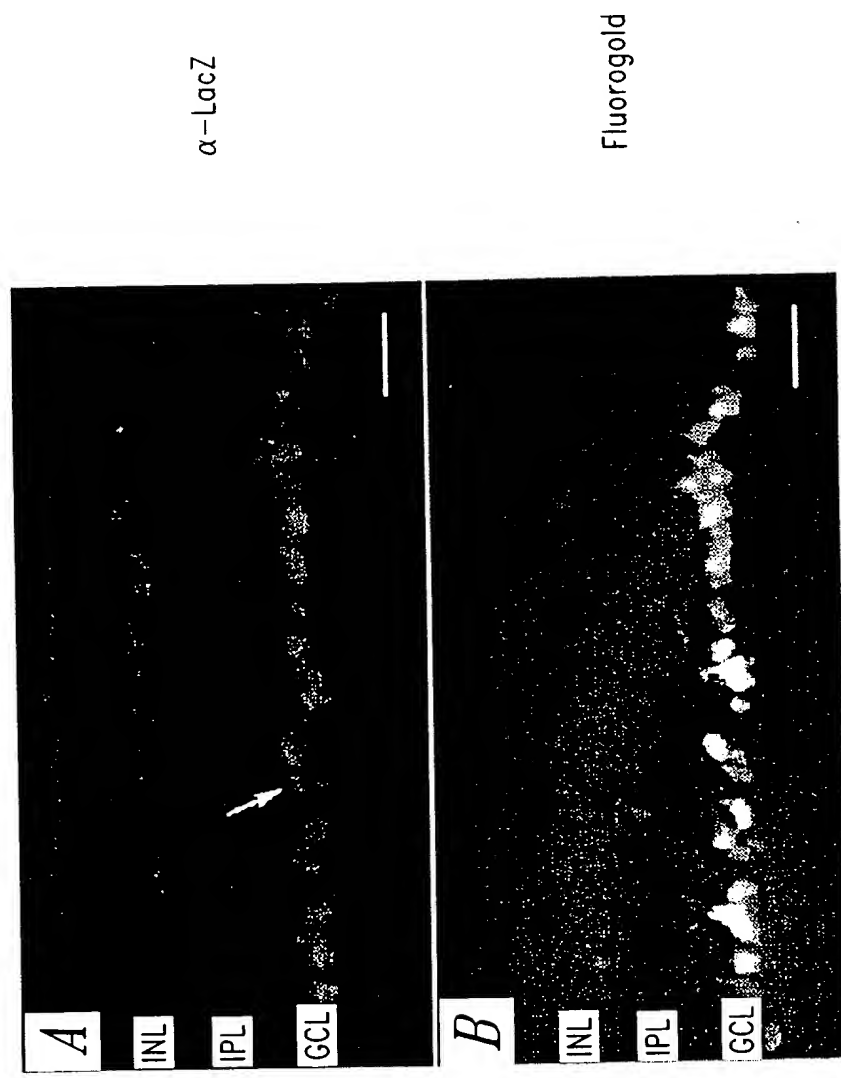


Fig. 18

Quantification of Flourogold and LacZ Positive Cells in the Ganglion Cell Layer Following Intravitreal Injection of rAAV-LacZ

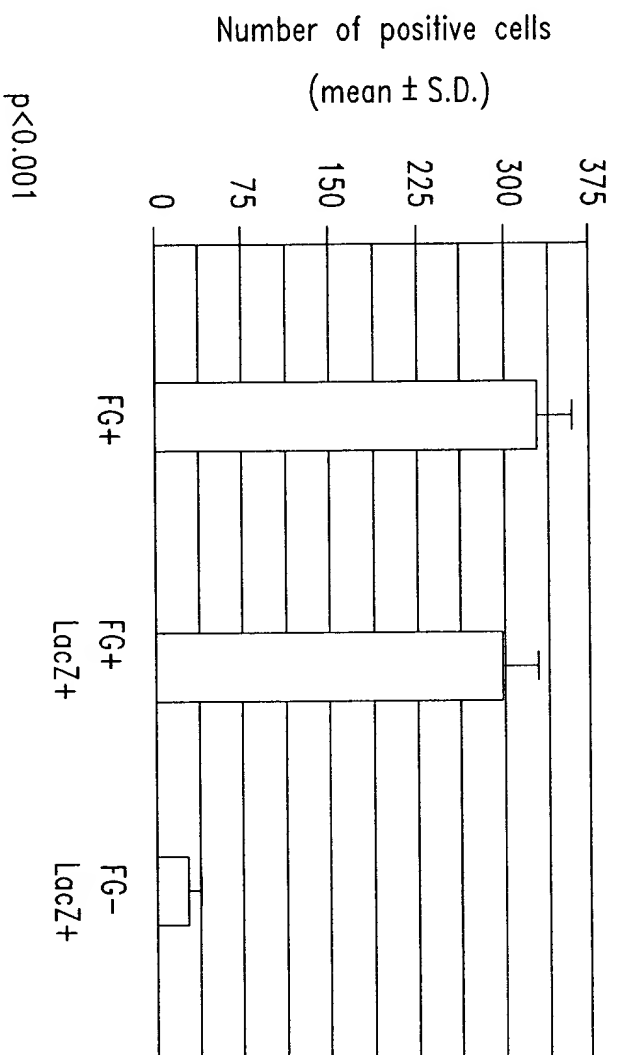


Fig. 19

Localization of Heparin sulfate Proteoglycan, the Cellular Receptor for AAV, in the Adult Rat Retina

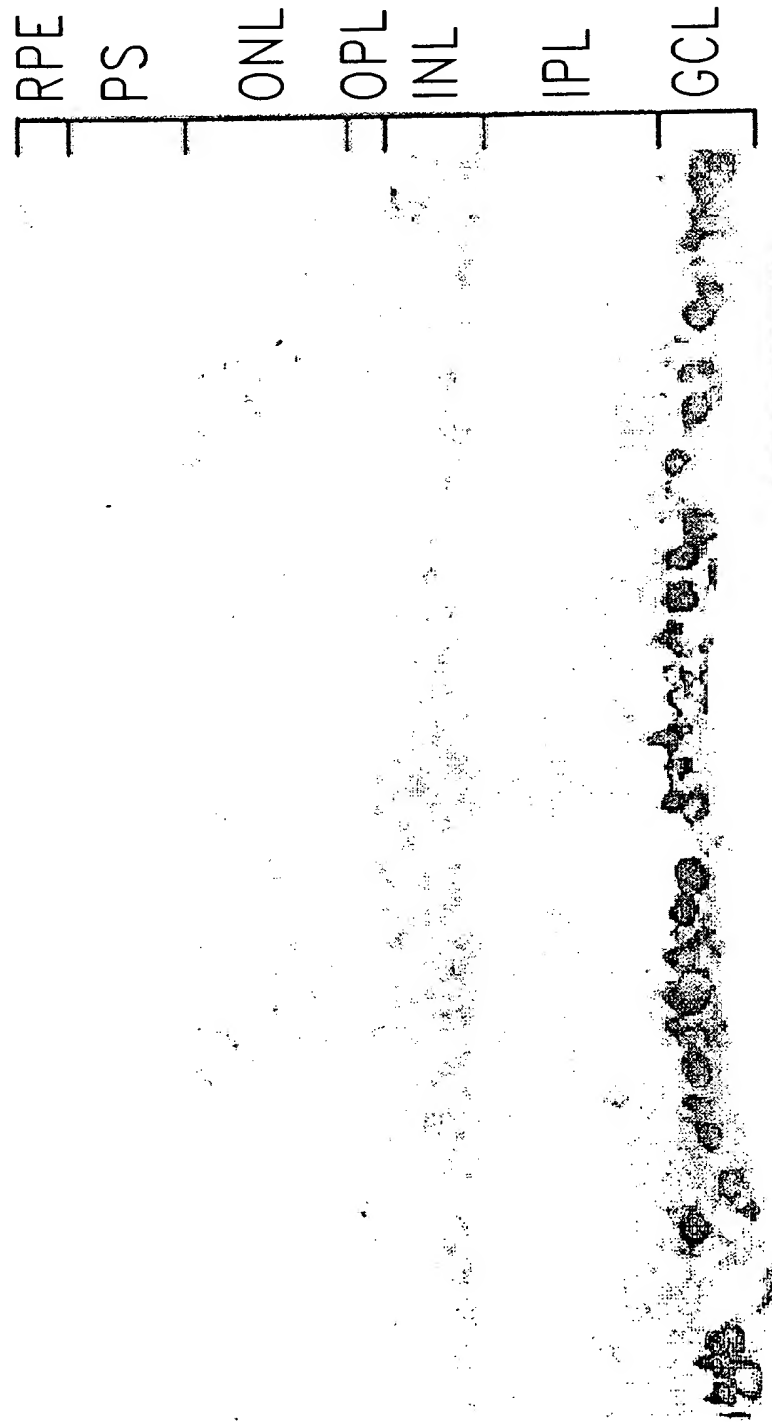


Fig. 20

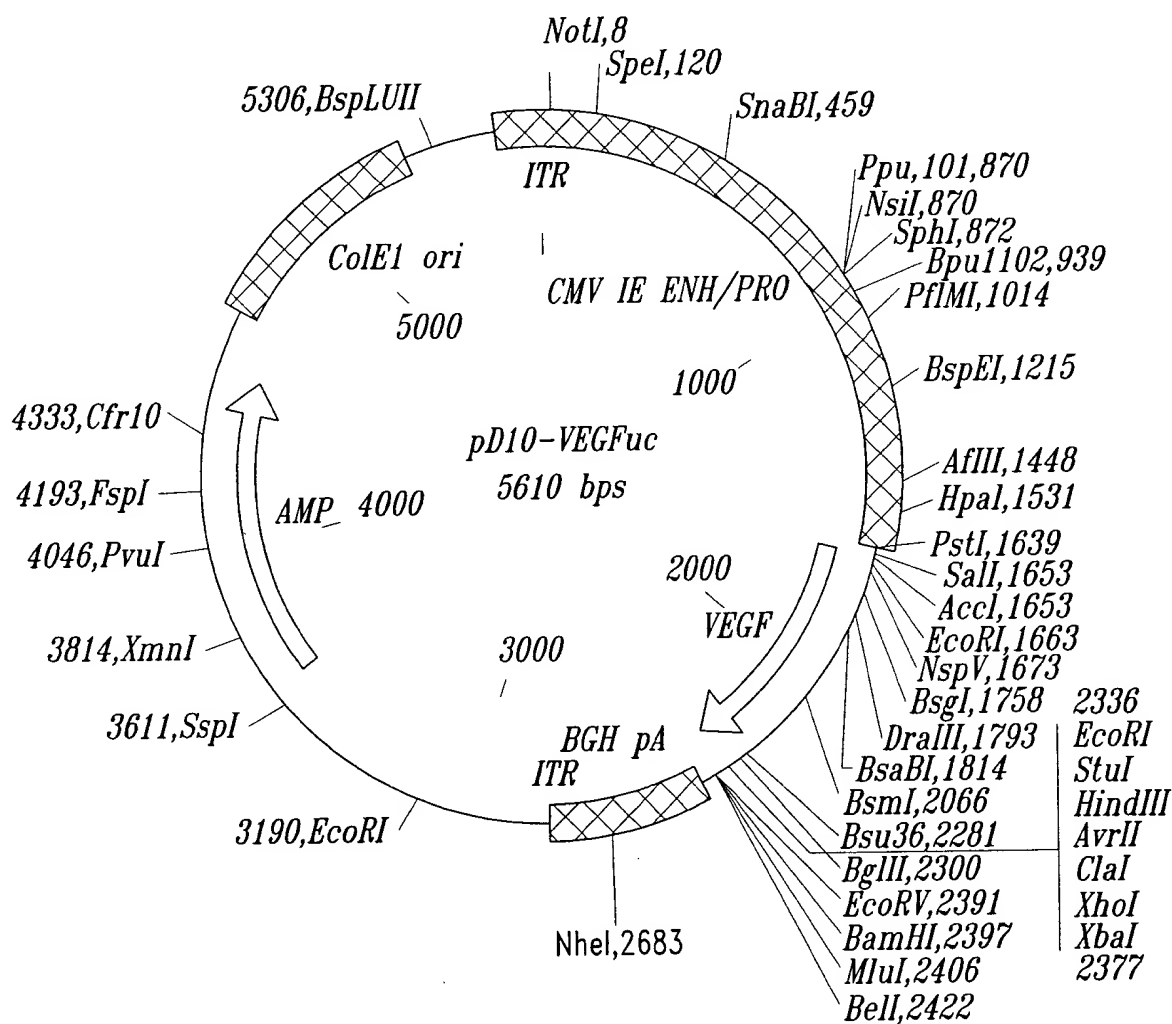


Fig. 21

Nucleotide Sequence of pD10-VEGFuc

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Fig. 22A

ATTCAACATTTCCGTGTCGCCCTTATTCCTTTTTTTCGCGCATTTTGCCTTCTGTGTTTTGCTCACCAGAAACGCTGGTGAAAGTAAAGATGCTGAAGA
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Fig. 22B

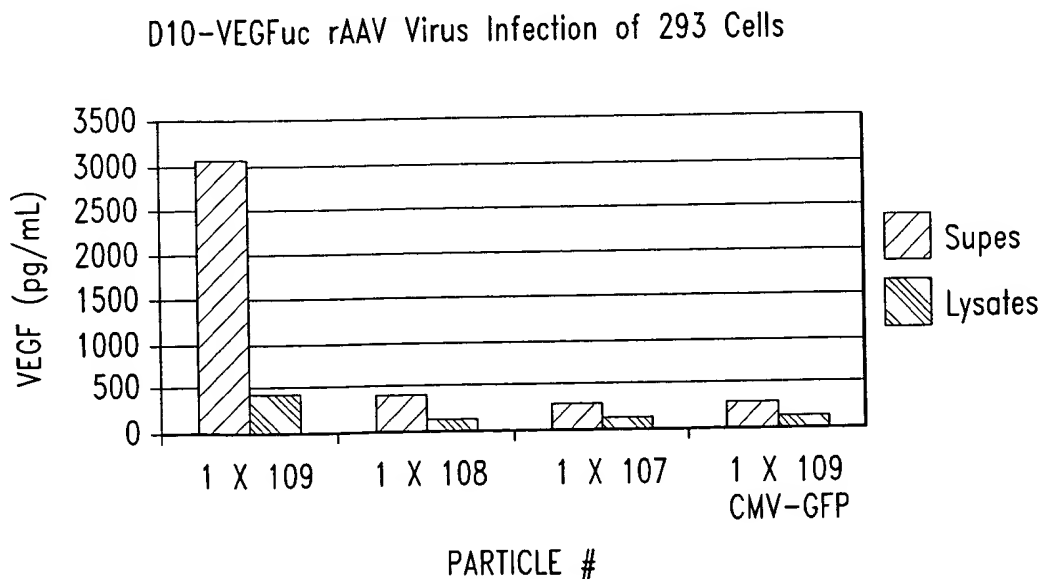
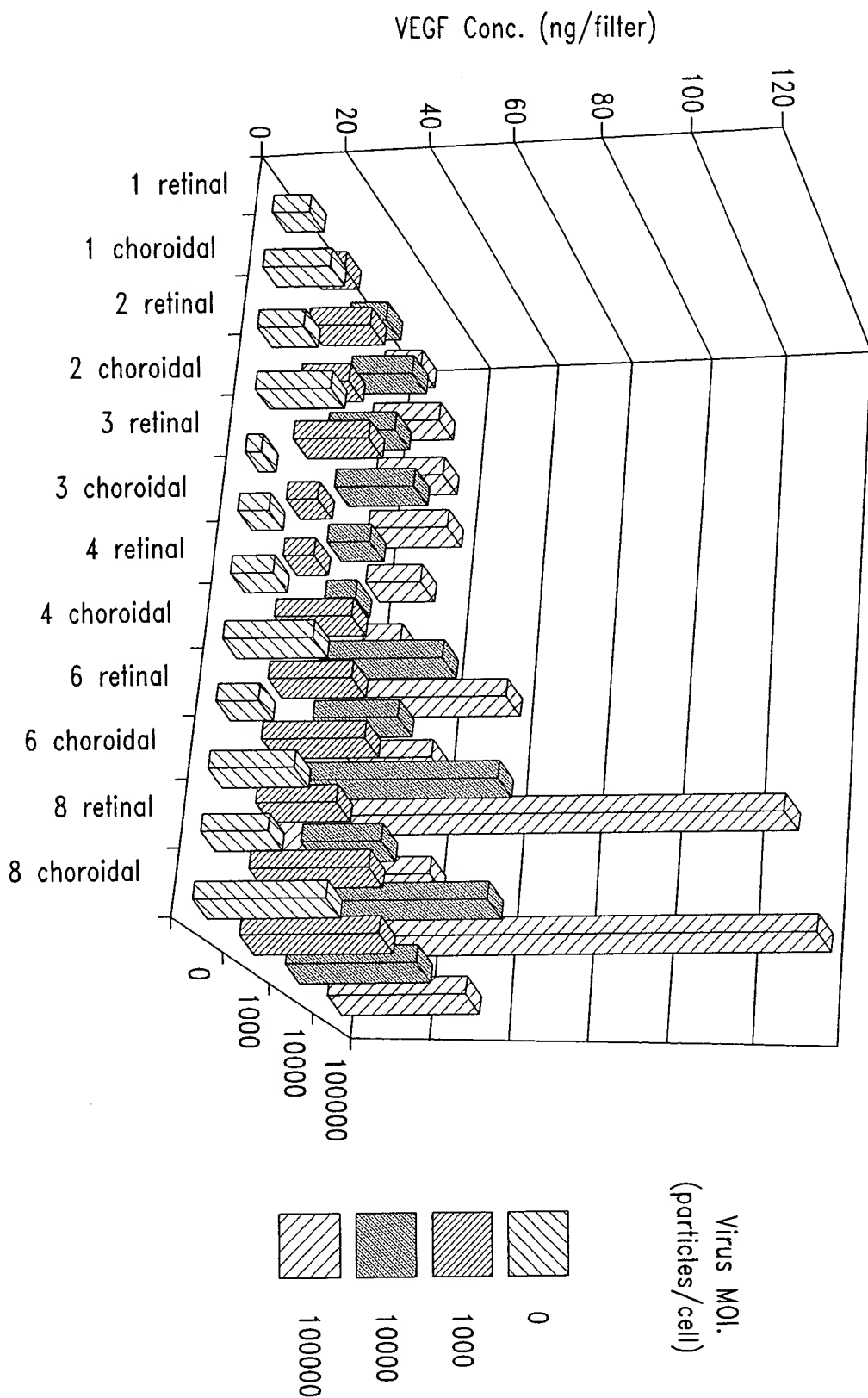


Fig. 23

Fig. 24

Time after transfection (Day) and Polarity



VEGF Secretion by hFRPE After Infection with VEGF AV

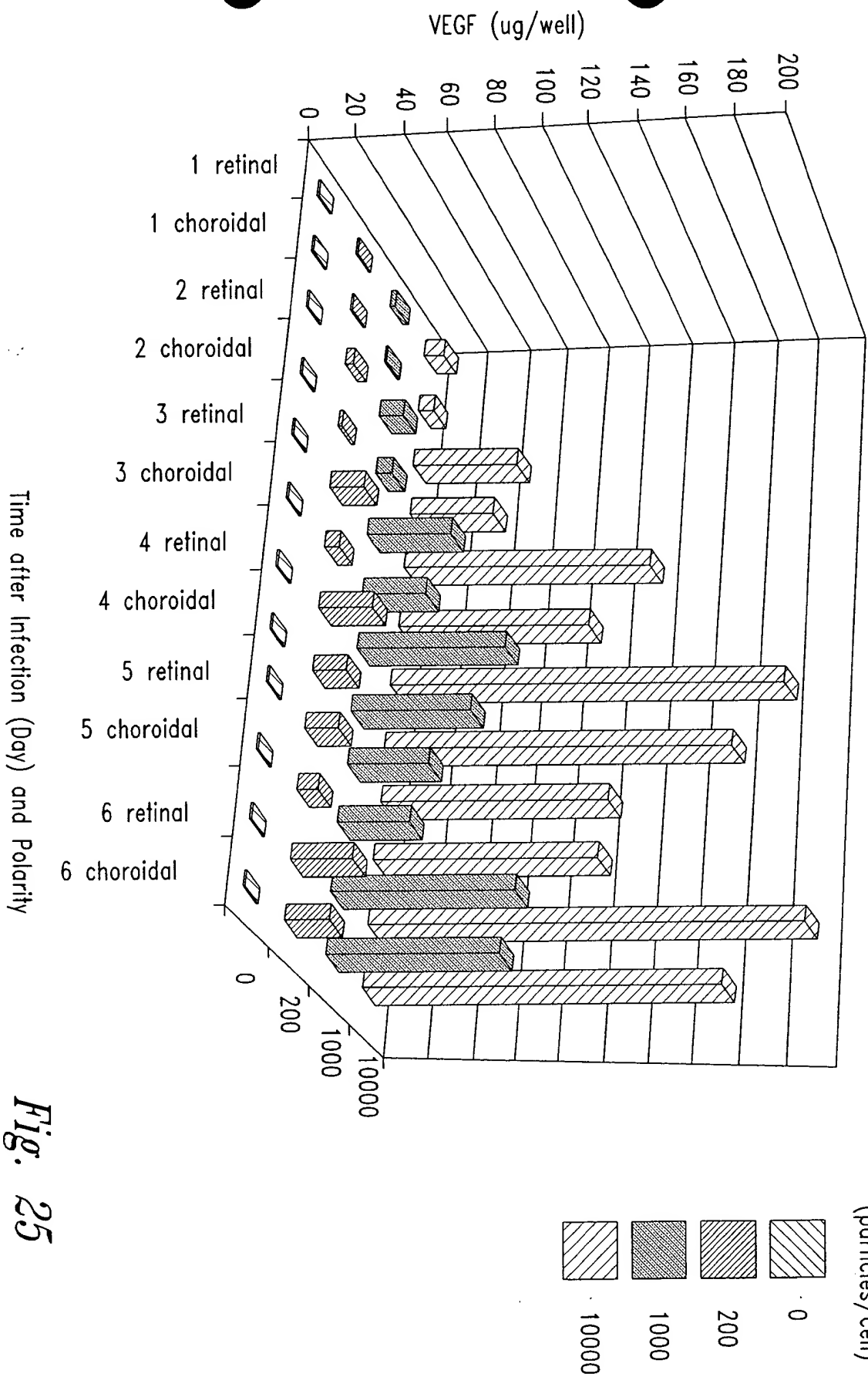


Fig. 25

Resistance of hFRPE After Infection with VEGF AV

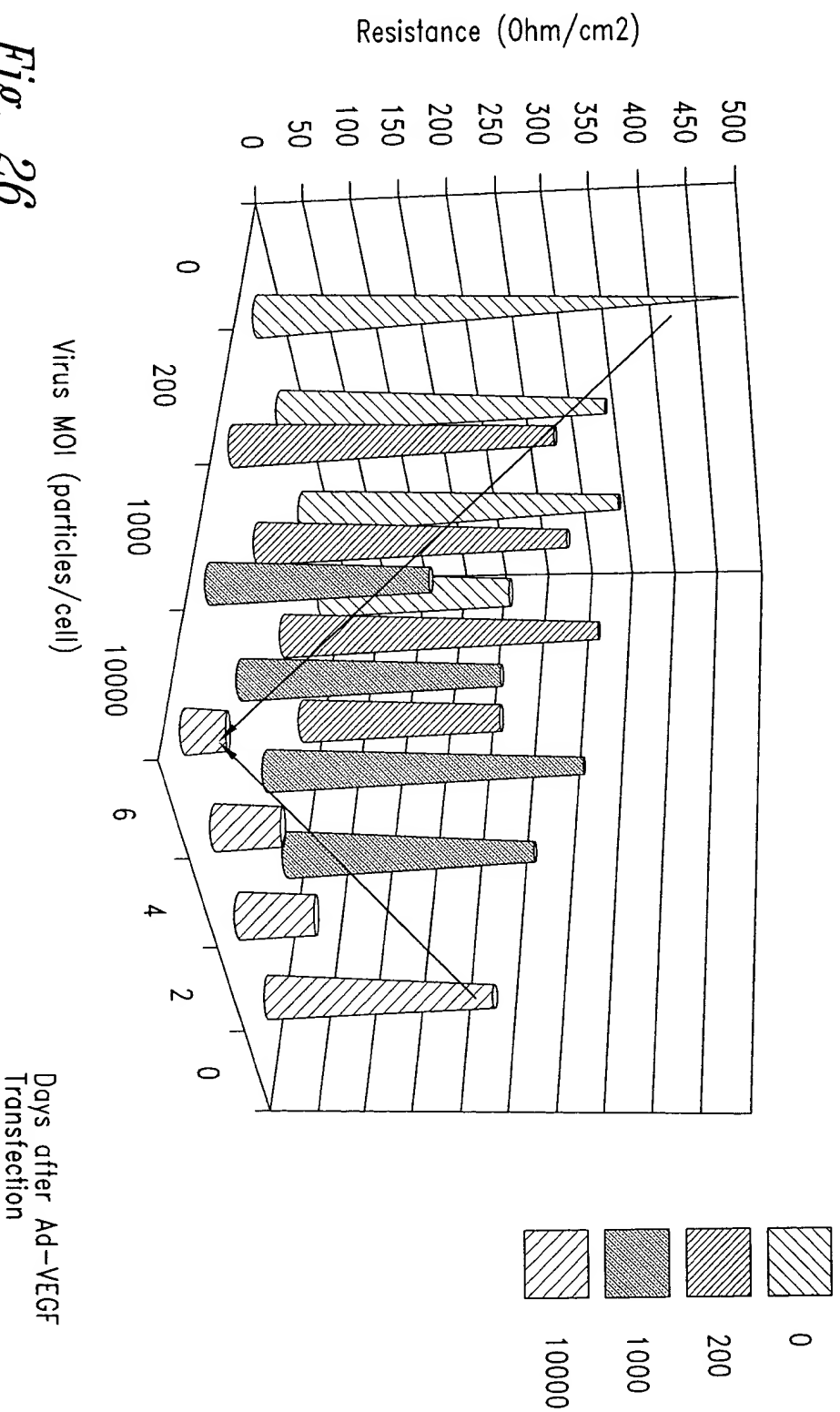


Fig. 26

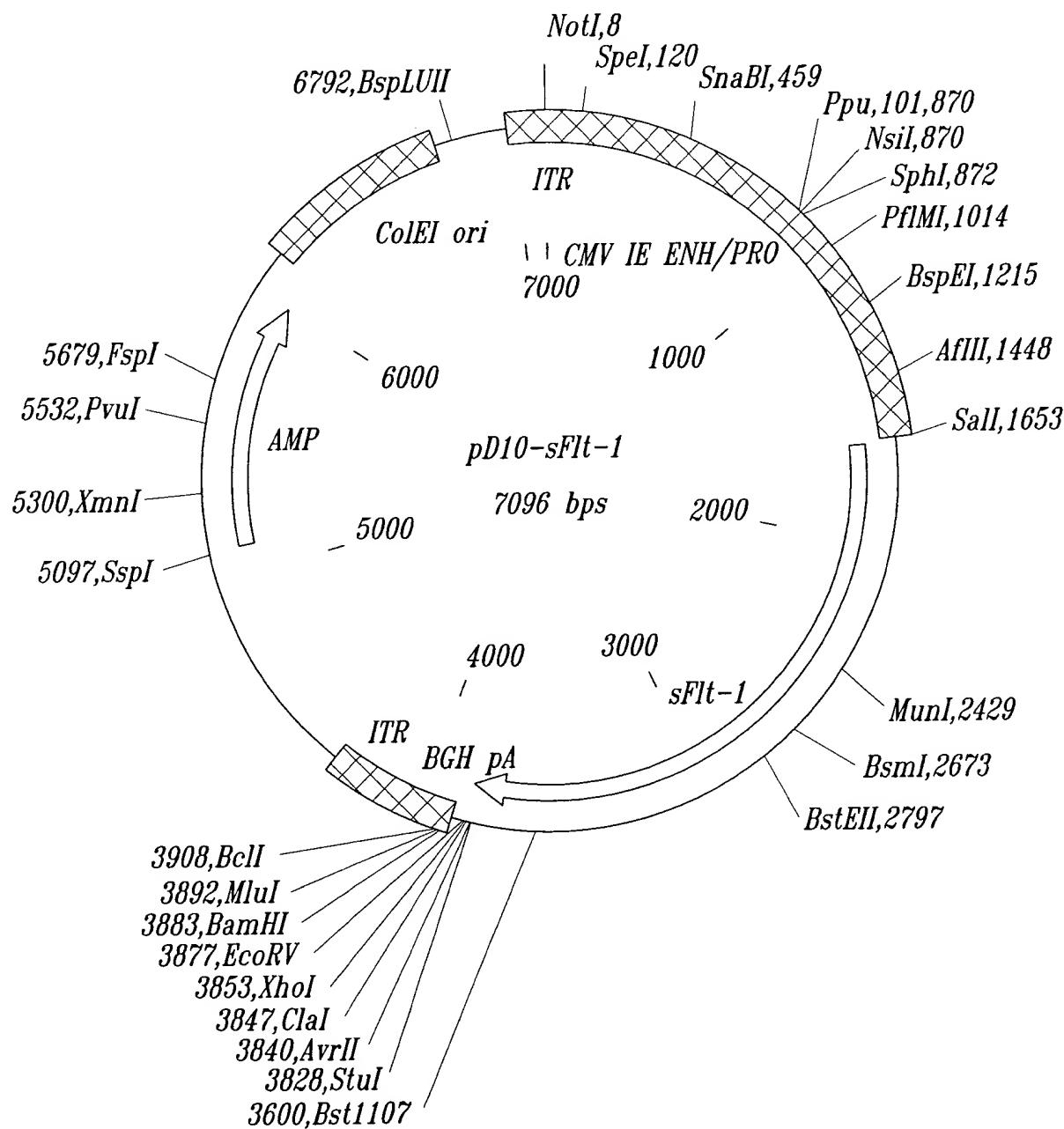


Fig. 27

Nucleotide Sequence of pD10-SFlt-1

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 CATGTTGACATTGATTATTGACTAGTTAATAAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCGCGTTACATAACTTACGG
 TAAATGGCCCGCTGGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCATTGAC
 GTCAATGGGTGGAGTATTTACGGTAACTGCCCACTTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCTATTGACGTCAATGACGGTAAAT
 GGCCCGCTGGCATTATGCCAGTACATGACCTTACGGGACTTTCTACTTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGT
 TTTGGCAGTACACCAATGGGCGTGATAGCGGTTTGAATCAGGGGATTTCCAAGTCTCCACCCCATTTGACGTCAATGGGAGTTTGTGTTGGCACCAA
 ATCAACGGGACTTTCCAAATGTGTAATAACCCCGCCCGTTGACGCAATGGGCGTAGGCGGTACGGTGGGAGGTCATATAAGCAGAGCTCGTT
 TAGTGAACCGTCAGATCGCTGGAGACGCCATCCACGTGTTTTGACCTCCATAGAAGACACGGGACCGATCCAGCCTCCGCGGCCGGGAACGGTGCA
 TTGGAACGGGATTCCCGTGCCAAGAGTGACGTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTATACTGTTTTGG
 CTTGGGGCTATACACCCCGCTCTTATGCTATAGGTGATGGTATAGCTTAGGCTATAGGTGTTGGTTATTGACCATTATTGACCCTCCCCTATTGG
 TGACGATACTTTCCATTACTAATCCATAACATGGCTCTTTGCCACAATATCTCTATTGGCTATATGCCAATACTCTGTCTTCAGAGACTGACACGGA
 CTCTGTATTTTTACAGSATGGGTCATTTATTATTACAAATTCACATATACAACACGCCGTCCCGTGCCCGCAGTTTTTATTAACATAGCGTG
 GGATCTCCGACATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCCGTAGCGGGGAGCTTCCACATCCGAGCCCTGGTCCCATCCGTCCAGCGGT
 CATGGTCGCTCGGCAGCTCTTGCTCCTAACAGTGGAGGCCAGACTTAGGCACAGCACAATGCCACCACCACAGTGTGCCGCACAAGGCCGTGGGG
 TAGGGTATGTGCTGAAAATGAGCTCGGAGATTGGGCTCGCACCTGGACGCAGATGGAAGACTTAAGGCAGCGGCAGAAGAAGATGCAGGCAGCTGAGT
 TGTGTATTCTGATAAGAGTCAGAGGTAACCTCCGTTCGGGTGCTGTTAACGGTGGAGGGCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGCGGC
 CACCAGACATAATAGCTGACAGACTAACAGACTGTTCCCTTCCATGGGTCTTTTCTGCAGTACCCTCGTCGACCTAAGAATTCGCCCTTTCACCATGG
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 GTTAAAGGCACCCAGCACATCATGAAGCAGGCCAGACACTGCATCTCCAATGCAGGGGGGAAGCAGCCATAAATGGTCTTTGCTGAAATGGTGA
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 CTTTCGTAGAGATGTACAGTGAAATCCCGAAATTATACATGACTGAAGGAAGGGAGCTCGTCATTCCTGCGGGTTACGTACCTAACATCACTG
 TTACTTTAAAAAAGTTTCCACTTGACATTTGATCCCTGATGGAACCGCATATCTGGGACAGTAGAAGGGCTTCATCATATCAAATGCAACGTACA
 AAGAAATAGGGCTTCTGACCTGTGAAGCAACAGTCAATGGGCATTTGTATAAGACAACTATCTCACATCGACAAACCAATACAATCATAGATGTCC
 AAATAAGCACACCACGCCAGTCAAATTACTTAGAGGCCATACTCTTGCTCAATTGTACTGCTACCACTCCCTTGAACACGAGAGTTCAAATGACCT
 GGAGTTACCCTGATGAAAAAATAAGAGAGCTTCCGTAAAGCGACGAATTGACCAAAGCAATTCATGCCAATATTTACAGTGTTCTTACTATTG
 ACAAATGCAAGAACAGAAAGCAAGGACTTTATACTTGTGCTGTAAGGAGTGGACCATCATTCAAATCTGTTAACACCTCAGTGCAATATATGATAAG
 CATTCACTGTAACATCGAAACAGCAGGTGCTTGAACCGTAGCTGGCAAGCGGTCTTACCGGCTCTATGAAAGTGAAGGCATTTCCCTCGC
 CGGAAGTTGTATGGTTAAAGATGGGTACCTGCGACTGAGAAATCTGCTCGCTATTTGACTCGTGGCTACTCGTTAATTATCAAGGACGTAAGTGAAG
 AGGATGCAGGGAATTATACAATCTTGCTGAGCATAAAACAGTCAAATGTGTTAAAAACCTCACTGCCACTCTAATTGTCAATGTGAACCCCGAGATT
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 CTGGAATCTACATTTGCATAGCTTCCAATAAAGTTGGGACTGTGGGAAGAAACATAAGCTTTTATATCACAGATGTGCCAATGGGTTTCATGTTAACT
 TGGAAAAATGCCGACGAAGGAGAGGACCTGAACTGTCTTGACAGTTAAACAGTCTTATACAGAGACGTTACTTGGATTTTACTGCGGACAGTTA
 ATAACAGAACATGCACTACAGTATTAGCAAGCAAAAAATGGCCATCACTAAGGAGCACTCCATCACTCTTAATCTTACCATCATGAATGTTTCCCTGC
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Fig. 28A

000260-2649960

0965493.092000

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CGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGAGCGGCCAGCGATTCTCTTGTGCTCCAGACTCTCAGGCAATGACCTGATAGCCTTTGT
AGAGACCTCTCAAAAATAGCTACCCTCTCCGGCATGAATTTATCAGCTAGAACGGTTGAATATCATATTGATGGTGATTTGACTGTCTCCGGCTTTCT
CACCCGTTTGAATCTTTACCTACACATTACTCAGGCATTGCATTTAAATATATGAGGGTTCTAAAAATTTTATCCTTGCGTTGAAATAAAGGCTTCT
CCCGCAAAAGTATTACAGGGTCATAATGTTTTTGGTACAACCGATTTAGCTTTATGCTCTGAGGCTTATTGCTTAATTTTGCTAATTTCTTGCCTTGC
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CTGCTCTGATGCCGCATAGTTAAGCCAGCCCCGACACCCGCCAACACCCGCTGACGCGCCCTGACGGGCTTGTCTGCTCCGGCATCCGCTTACAGACA
AGCTGTGACCGTCTCCGGGAGCTGCATGTGTGACAGGTTTTACCGTCATACCGAAACGCGGAGACGAAAGGGCCTCGTGATACGCCATTTTTATA
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CAAACCGCTCTCCCGCGCGTTGGCGATTCTAATGACAGTGGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGCAAGCCCGGGCGTGGGGCGAC
CTTTGGTCGCCCCGCTCAGTGAGCGAGCGAGCGGAGAGGGAGTGGCCAACTCCATCACTGAT

Fig. 28B

HumanFGF-20

atggctcccttagccgaagtcgggggctttctgggcggcctggagggttggccagcag
M A P L A E V G G F L G G L E G L G Q Q

gtgggttcgcatttctgttgctcctgccggggagcggccgctgctgggcgagcgc
V G S H F L L P P A G E R P P L L G E R

aggagcgcggcggagcggagcgcgcggcggggcgggggctgcgcagctggcgacctg
R S A A E R S A R G G P G A A Q L A H L

cacggcatcctgcgcgcggcagctctattgccgcaccggcttcacctgcagatcctg
H G I L R R R Q L Y C R T G F H L Q I L

cccgcgcgcagcgtgcagggcacccggcaggaccacagcctcttcggtatcttgaattc
P D G S V Q G T R Q D H S L F G I L E F

atcagtgtggcagtggactggtcagtattagaggtgtggacagtggctctatcttggg
I S V A V G L V S I R G V D S G L Y L G

atgaatgacaaaggagaactctatggatcagagaaacttacttccgaatgcatctttagg
M N D K G E L Y G S E K L T S E C I F R

gagcagttgaagagaactggtataacacctattcatctaacaatataaaacatggagac
E Q F E E N W Y N T Y S S N I Y K H G D

actggccgcaggtatthtggcacttaacaaagacggaactccaagagatggcgccagg
T G R R Y F V A L N K D G T P R D G A R

tccaagaggcatcagaaatttacacatttcttacctagaccagtggatccagaaagagtt
S K R H Q K F T H F L P R P V D P E R V

ccagaattgtacaaggacactactgatgtacacttga
P E L Y K D L L M Y T

[illegible]

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SEQ ID NO: 2

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S P E S L L E L K A L K P G V I Q I L G

tgtcaaagcctctaggtttctttgccaacagccagatggagctctctatggatcgctca
V K A S R F L C Q Q P D G A L Y G S P H

ctttgatcctgaggcctgcagcttcagagaactgctgctggaggacggttacaatgtgtat
F D P E A C S F R E L L L E D G Y N V Y

ccagttctgaagccatggcctgccctgcgtctgcctcagaaggactcccaaaccagga
Q S E A H G L P L R L P Q K D S P N Q D

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A T S W G P V R F L P M P G L L H E P Q

agaccaagcaggattcctgccccagagccccagatgtggctcctctgacccctgag
D Q A G F L P P E P P D V G S S D P L S

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M V E P L Q G R S P S Y A S

Fig. 30

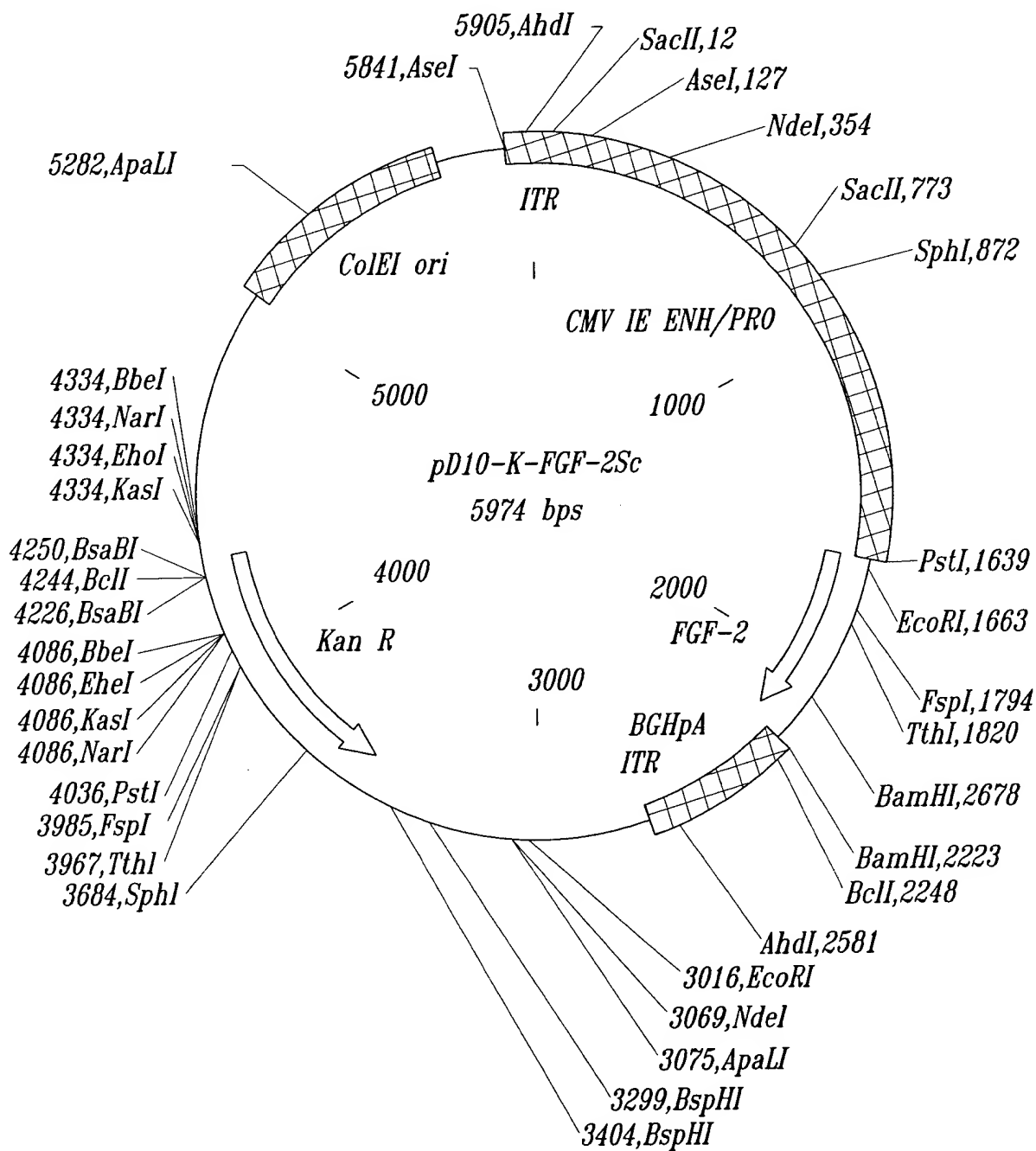


Fig. 31

0065493.092000

AAAACCTGCGGCCGCGGAATTTGACTCTAGGCCATTGCATACGTTGTATCTATATCATAATATGTACATTTATATTGGCTCATGTCCAATATGACC
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CGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTACGGGACTTTCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATG
GTGATGCGGTTTTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCGAAGTCTCCACCCCATGACGTCAATGGGAGTTTGT
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ATGCTATACTGTTTTTGGCTTGGGGCTATACACCCCGCTCCTTATGCTATAGGTGATGGTATAGCTTAGCCTATAGGTGTGGGTATTGACCATT
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AGCTGATCTTAATGGCAGCATCTGATCTCATTTTACATGAAGCTTCTAGGTATCGATCTGAGCAAGTCTAGAAAGCATGGATATCGGATCCACT
ACGCGTTAGAGCTCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGCCCTCCCCCGTGCCTTCTTGACCTGGAAGGT
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Fig. 32A

TGCTCTGATGCCGATAGTTAAGCCAGCCCCGACACCCGCCAACACCCGCTGACGGCCCTGACGGGCTTGCTGCTCCCGGCATCCGCTTACAGAC
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 ATAGGTTAATGTCATGATAAATAGGTTTCTTAGACGTCAGGTGGCATTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTATTTTTCTAAATA
 CATTCAAATATGTATCCGCTCATGAGACAATAACCTGATAAATGCTTCAATAATGTACCGTCAAGAAGGCGATAGAAGCGATGCGCTGCGAATC
 GGGAGCGGCGATACCGTAAAGCACGAGGAAGCGGTGAGCCATTGCTTCAGCAATATCACGGGTAGCCAACGCTATGCTCTGATAGCGGTCCGCCA
 CACCCAGCCGCGCACAGTCGATGAATCCAGAAAAGCGGCCATTTCCACCATGATATTCGGCAAGCAGGCATCGCCATGGGTACGACGAGATCCTC
 GCCGTGCGGCATGCGCGCTTGAGCCTGGCGAACAGTTCGGCTGGCGGAGCCCTGATGCTCTTCGTCCAGATCATCCTGATCGACAAGACCGGCT
 TCCATCCGAGTACGTGCTCGTCCGATGCGATGTTTCGCTTGGTGGTCGAATGGGCAGGTAGCCGGATCAAGCGTATGACGCGCCGATTGTCATGAG
 CCATGATGGATACTTTCTCGGCAGGAGCAAGGTGAGATGACAGGAGATCCTGCCCCGCACTTCGCCCAATAGCAGCCAGTCCCTTCCCGTTCACT
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 TCCAGATAGCCAGTAGCTGACATTCATCCGGGTGAGCAGCGTTTCTGCGGACTGGCTTCTACGTGTTCCGCTTCTTTAGCAGCCCTTGGCGCC
 TGAGTGTGTCGGCAGCGTGAAGCTGTAATTCGCGTTAAATTTTGTAAATCAGTCTATTTTTAACCAATAGGCGGAAATCGGCAAAATCCCT
 TATAAATCAAAAGATAGCCGAGATAGGGTTGAGTGTGTTCCAGTTTGAACAAGAGTCCACTATTAAGAAGCTGGACTCCACGTCAAAGGGC
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 CTTCTCGCTCACTGACTCGCTGCGCTCGGTGCTTCCGCTGCGGCGAGCGGTATCAGTCACTCAAAGGCGGTAAACGGTTATCCACAGAATCAGG
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Fig. 32B

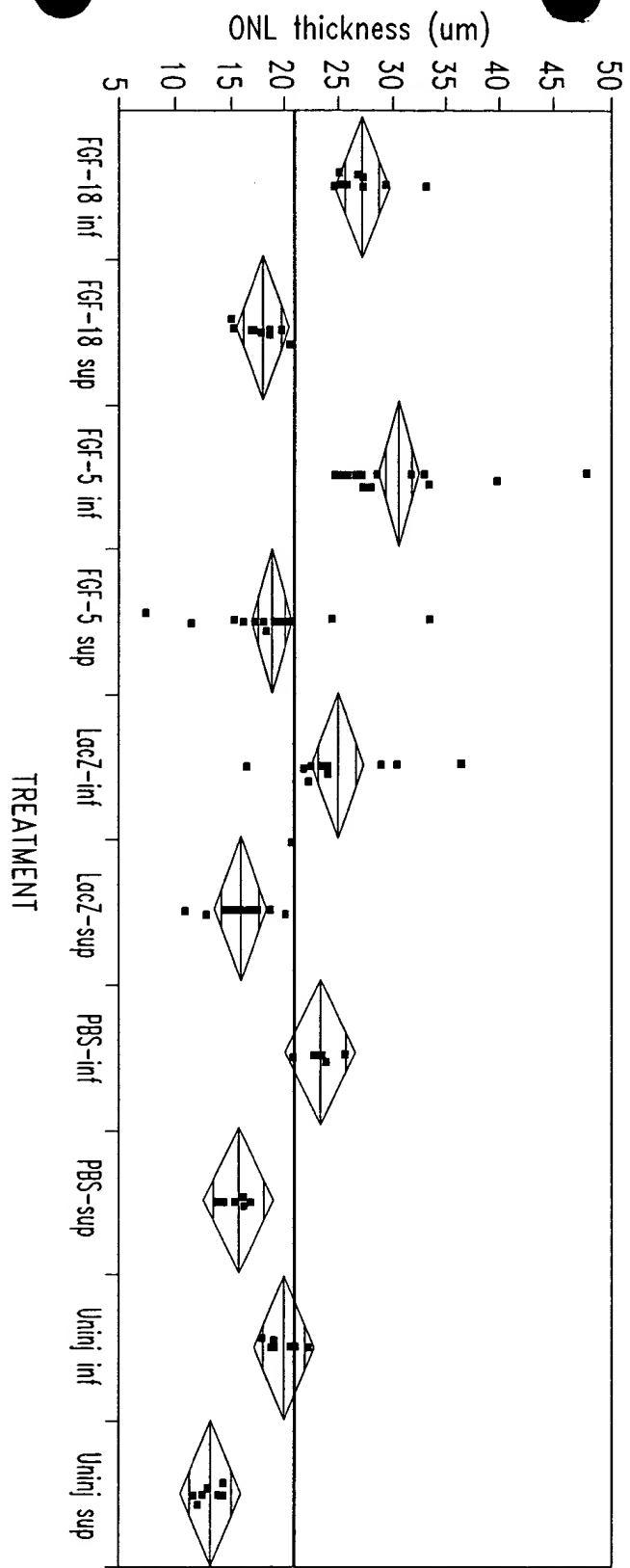


Fig. 33

Inhibition of HMVEC Proliferation by sFlt-1 rAAV

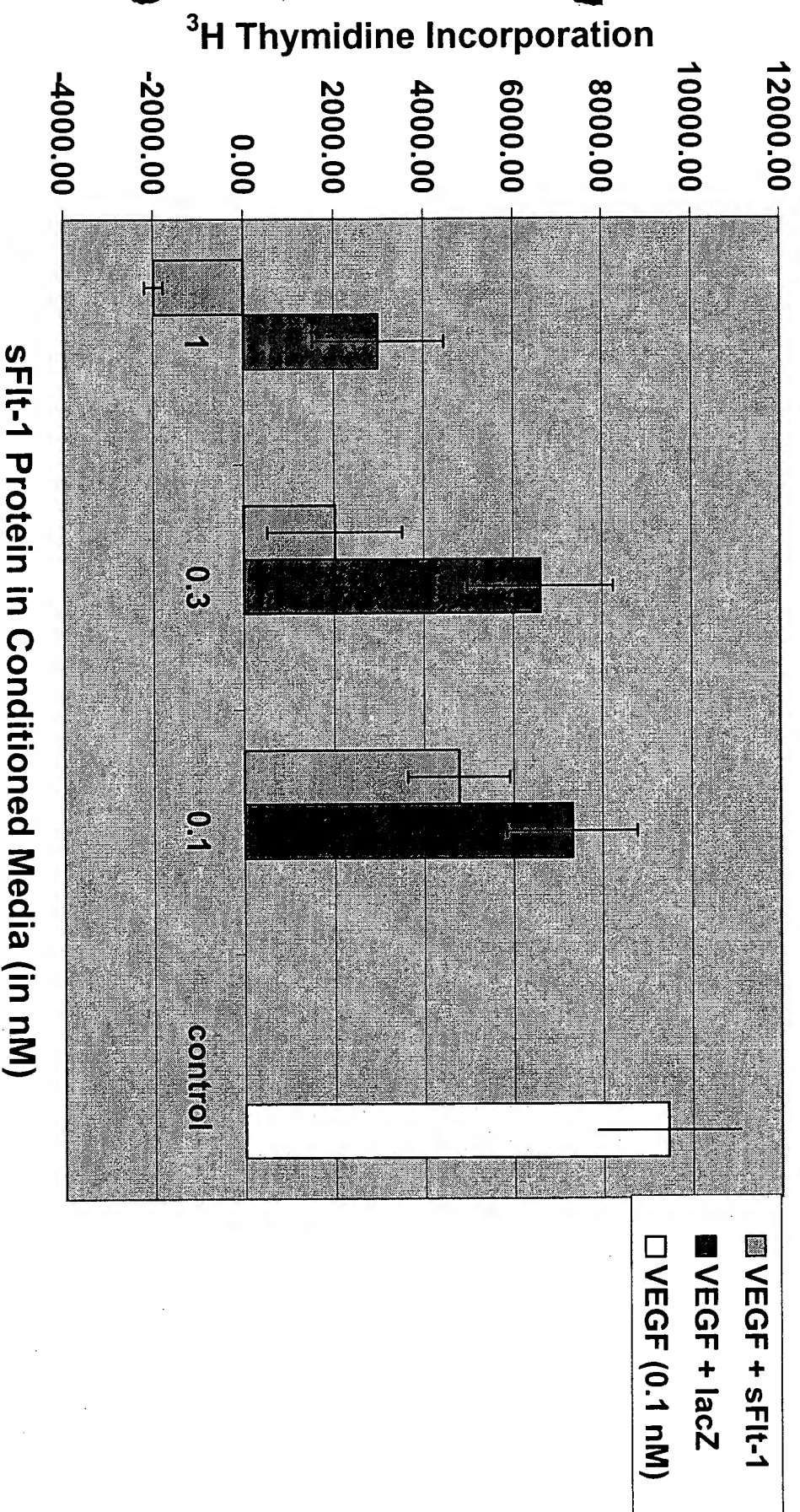


FIGURE 34

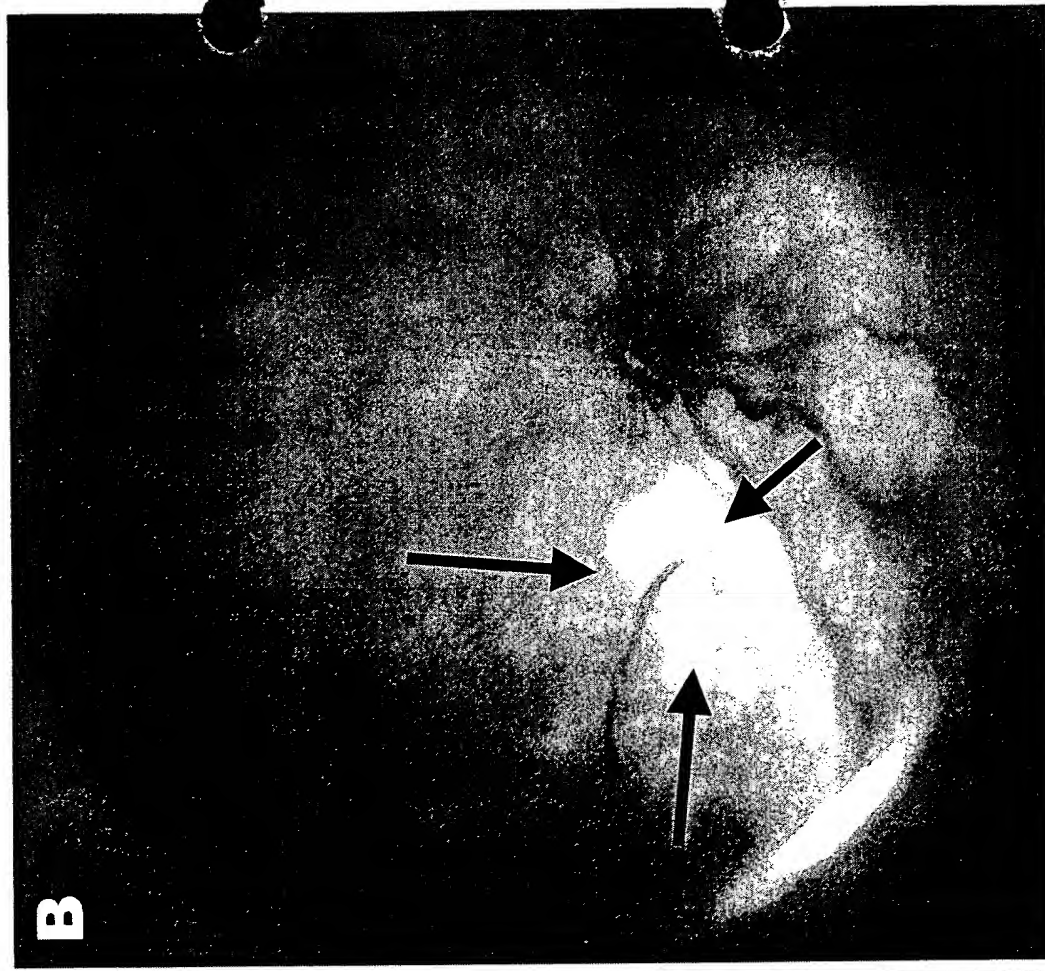


Figure 35. Fluorescein Angiography

000260" 2645950

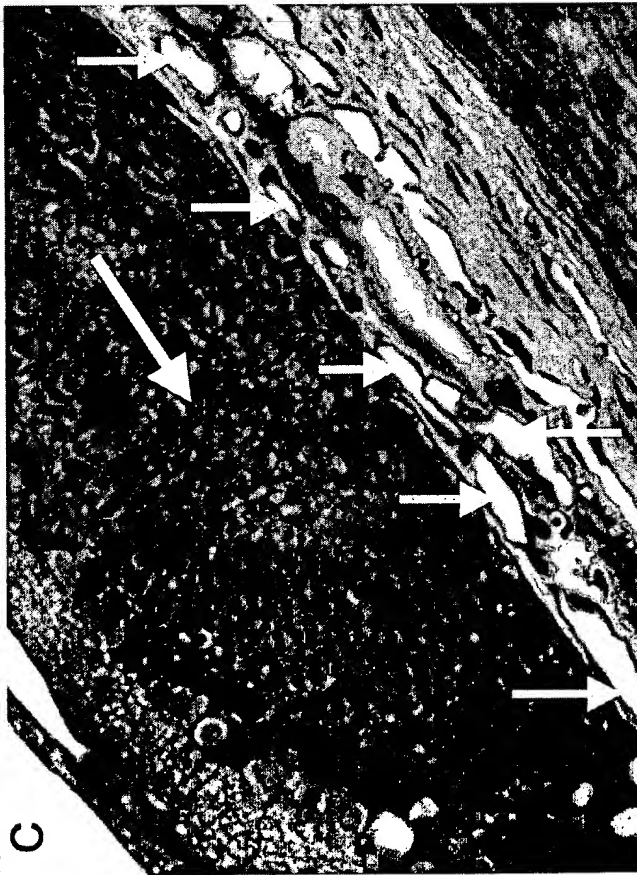
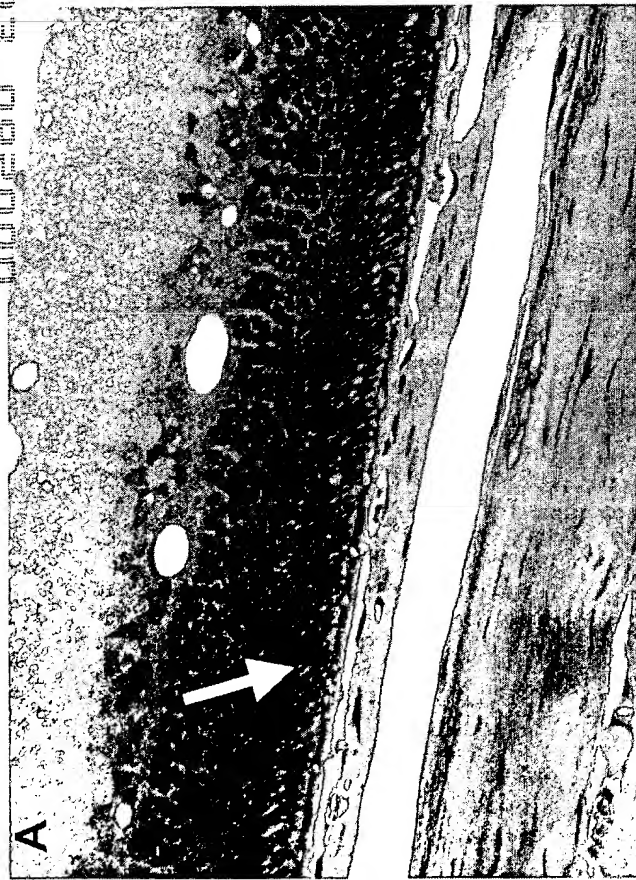
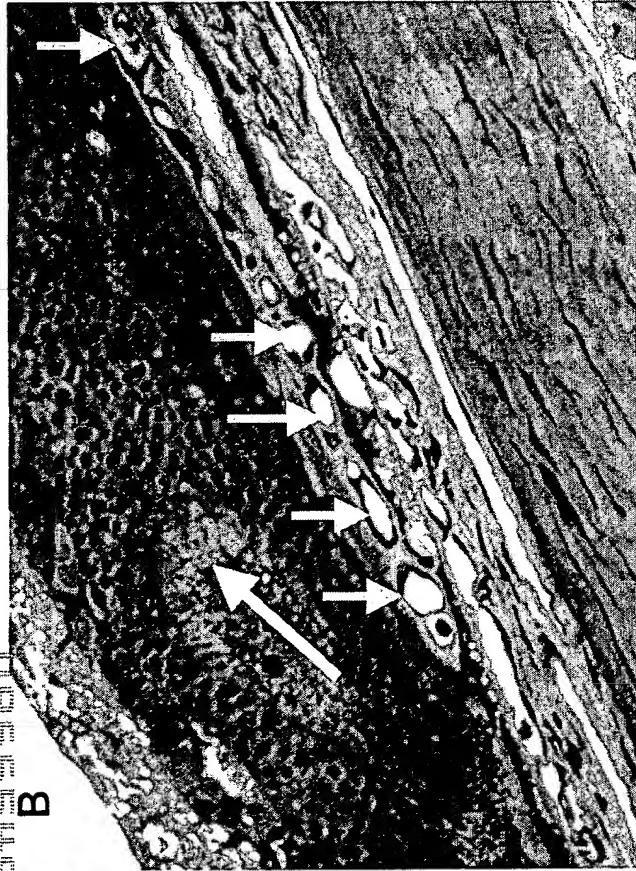


Figure 36. Epoxy Sections

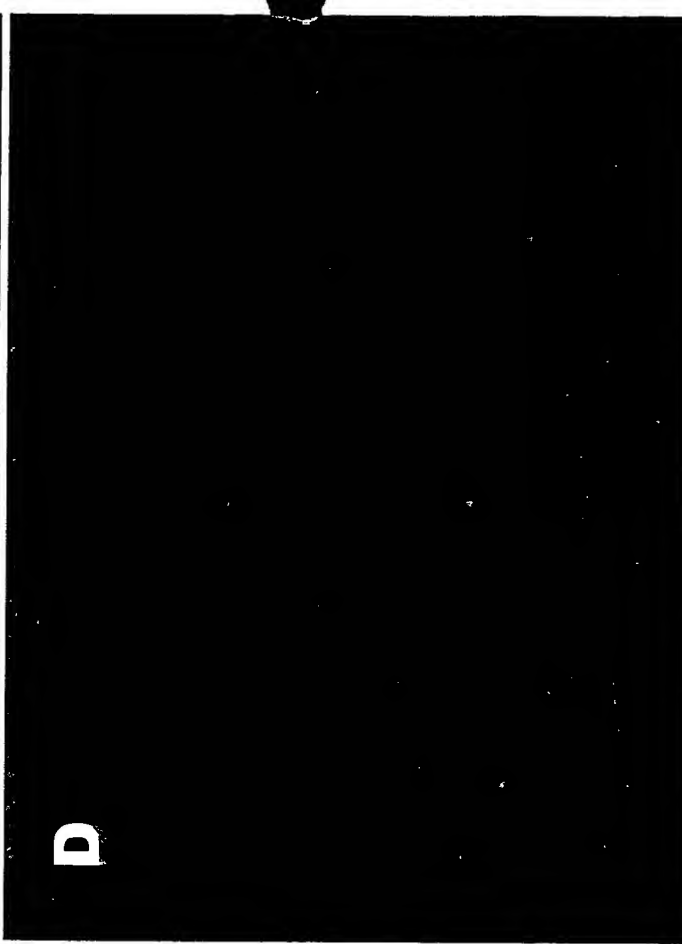


Figure 37. Lectin and BrdU staining

Figure 38A. sFlt-1 rescue of ERGs

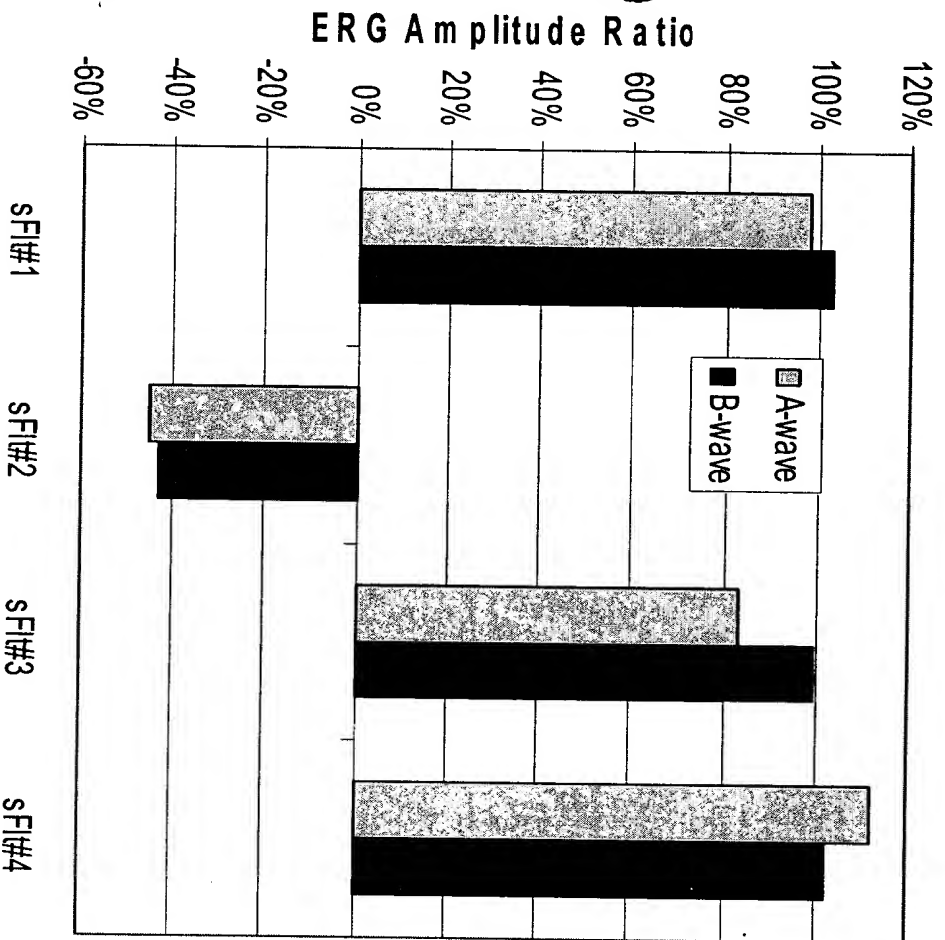
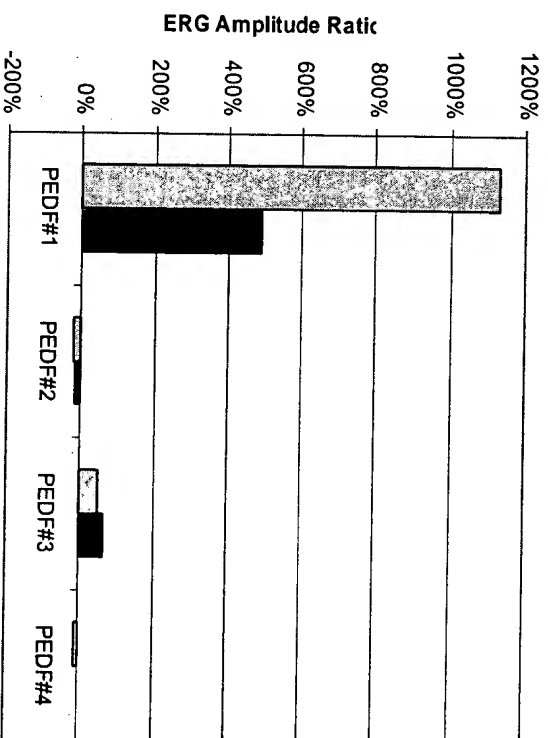


Figure 38B. PEDF rescue of ERGs



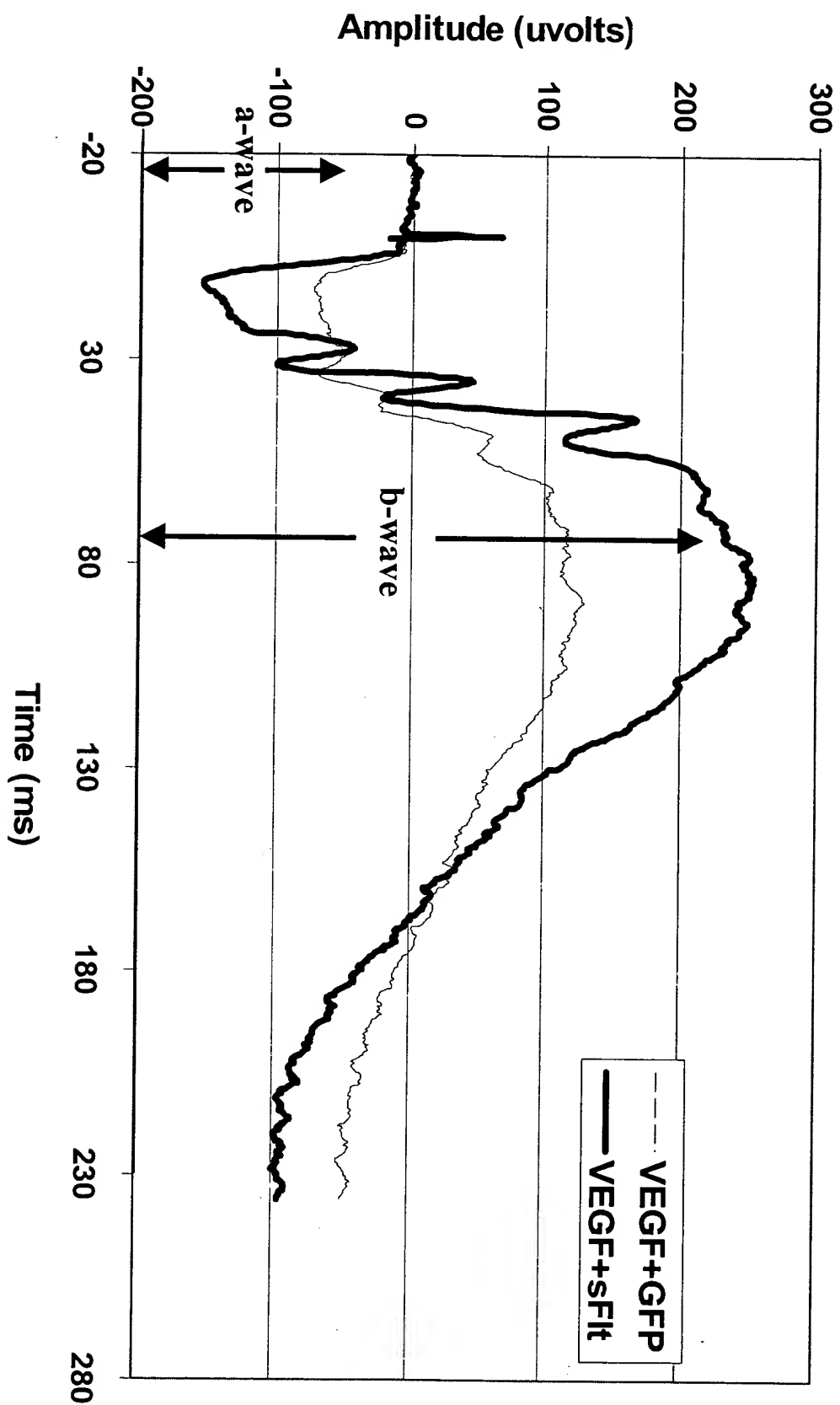


Figure 39. ERG of 070900 Rat#4 on 082300 (6 wk)